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HANDY MANUFACTURING COMPANY

INCORPORATED 1908

MANUFACTURERS OF
CLAMPING MACHINERY, VENEER PRESSES
— AND —
CLAMPS



2432 WEST LAWRENCE AVE., CHICAGO, ILLINOIS
U. S. A.

CATALOGUE NO. 35

35 Years of Progress

In 1907 the Handy Manufacturing Company started to manufacture steel spindle hand screws and steel bar clamps. At that time, many of our customers will recall that the steel bar clamp was gradually replacing the wooden wedge system of clamping up core stock, therefore there was a great demand for this new type of clamp to replace the old method.

After a few years of contact with our many customers through our sales engineers, we decided we could render the manufacturer a better service by creating a line of labor-saving clamping machines for the various operations they required, and consequently we commenced to build up gradually our line of CLAMPING MACHINES, that are illustrated and described in this—our number 35—Catalogue.

In these later years there has been a demand for air operated clamping machines. Therefore we have added the most desirable of these to our line, and will furnish any type of clamping machine, equipped with air power, whether it is in our catalogue or not.

We do not show in this catalogue the thousands of clamping machines we have built for special purposes, but we invite **YOU** to present **YOUR** special clamping problems to us, for we have the equipment and experience needed to solve them, and furthermore, due to the large number of special patterns that we have accumulated, our prices are **always** reasonable.

Regardless of the sizes given in our catalogue, we have always followed the policy of giving our customers the particular size clamp they needed, as to height, length of clamping plates and the opening up of same.

We have recently added to our line, electrically heated and air operated ROUND CORNER BENDING PRESSES, which are the latest and most efficient equipment for round corner bending. These are described and illustrated on a separate folder, which, if not enclosed, we will send on request.

The present officers are the same ones that have been with the company ever since it started. Through personal calls on you they have learned your requirements. This experience has been very useful to you, in enabling us to fill your orders correctly and on time, when, in many cases, all the proper specifications were not given in the order.

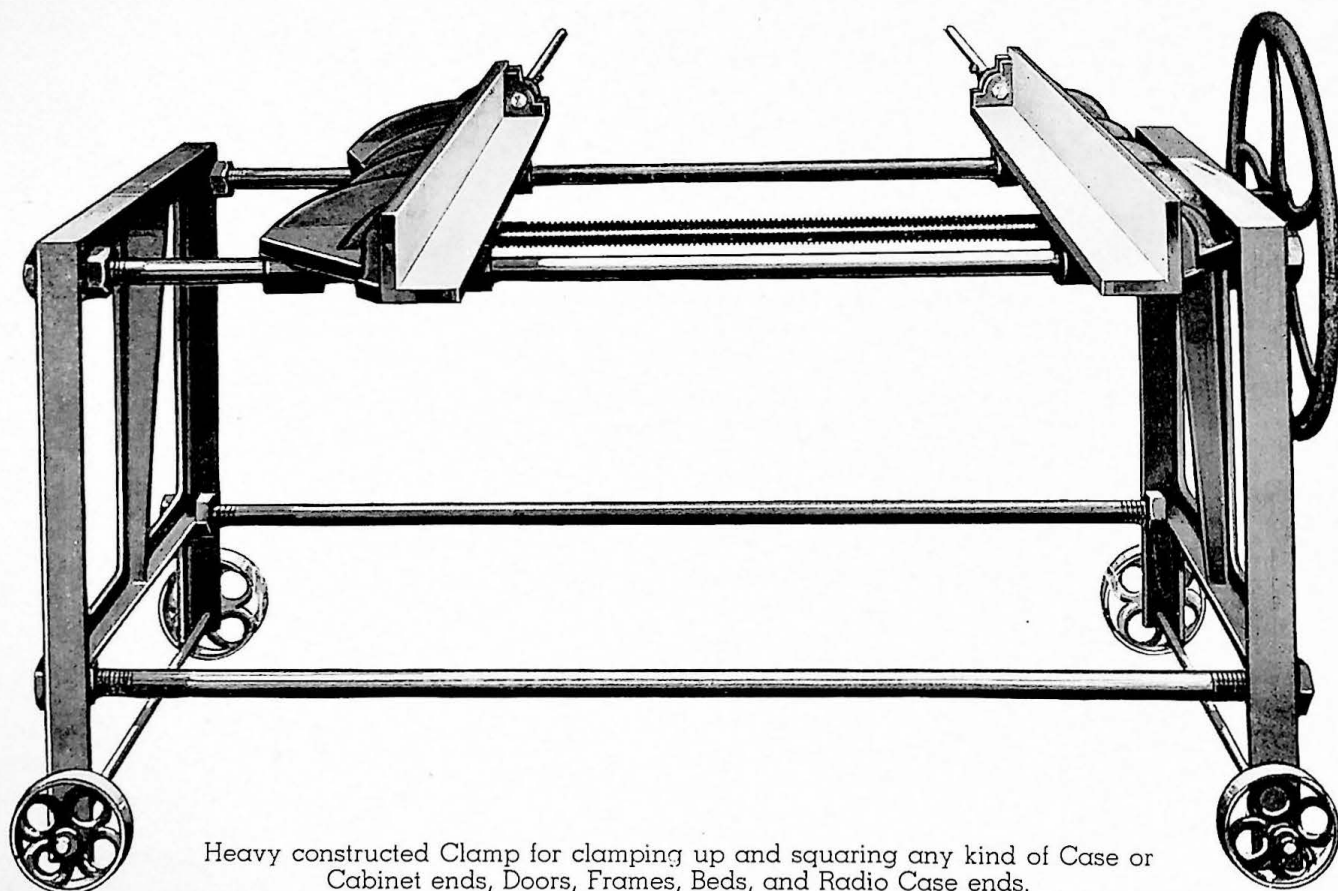
We thank you for the support you have given us in the past, and sincerely hope that our service has been such that it warrants your confidence and continued support in the years to come.

HANDY MANUFACTURING COMPANY

Following Instructions and Permission given by the OPA We are adding 20% to our 1941 prices shown on list and in Catalogue.

Handy Manufacturing Company.

"HANDY" End Clamp



Heavy constructed Clamp for clamping up and squaring any kind of Case or Cabinet ends, Doors, Frames, Beds, and Radio Case ends.

Easy and quick to operate, as front plate is stationary; the back plate moves towards operator by means of long, quick-acting screw $1\frac{1}{2}$ inch in diameter, thus doing away with stops, which sooner or later get out of order.

Top of wheel, which is 24 inches in diameter, is only 5 inches above top of front plate, making it easy for operator to place the stock and apply pressure.

Standard size clamping plates are $3\frac{1}{2}$ inches high and will close to 6 inches. They are equipped with end stops which have an adjustment of 10 inches.

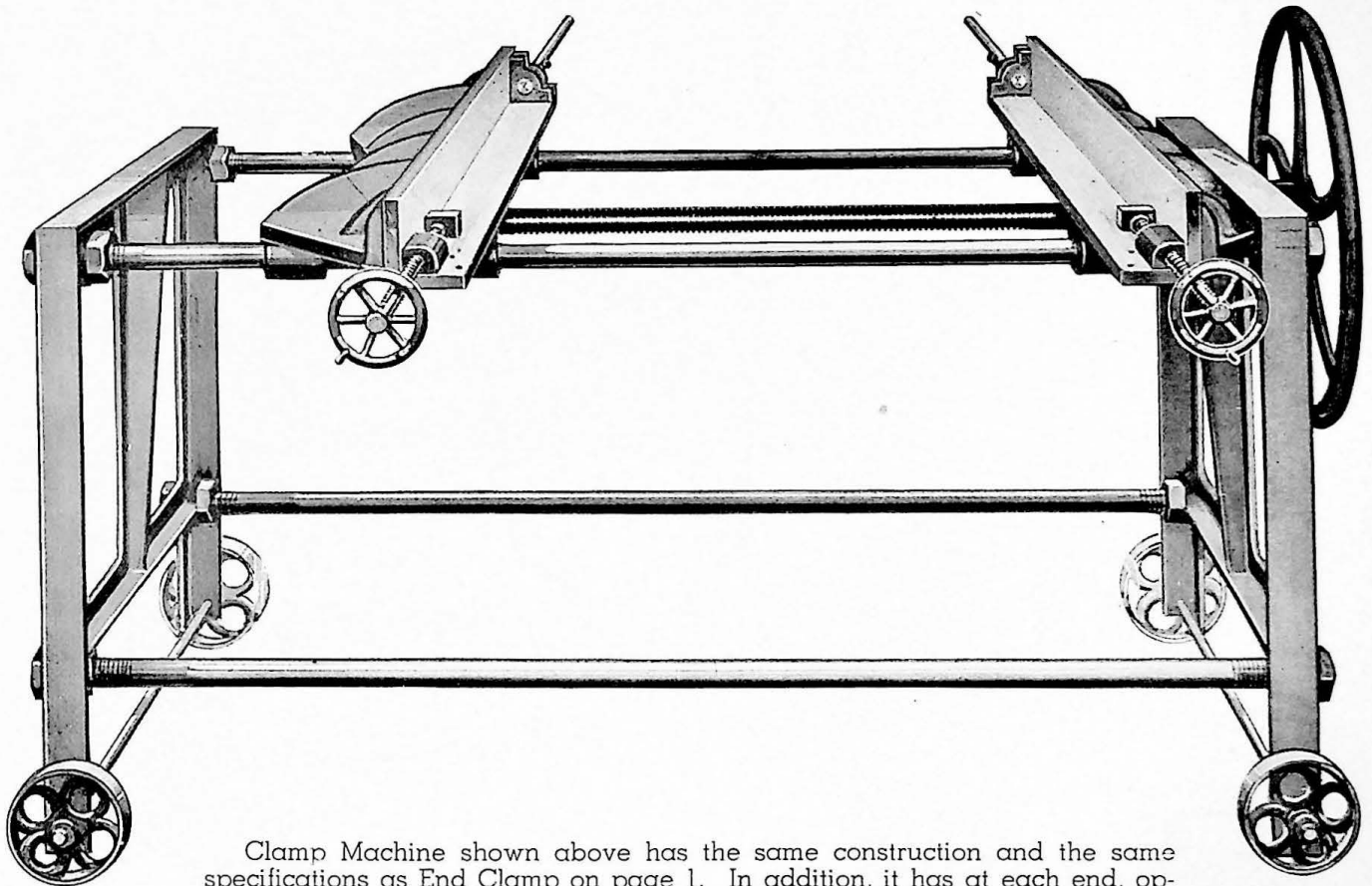
Machine No. 9 has clamping plates 96 inches long from stops.
Machine No. 10 has clamping plates 90 inches long from stops.
Machine No. 11 has clamping plates 84 inches long from stops.
Machine No. 12 has clamping plates 71 inches long from stops.
Machine No. 13 has clamping plates 55 inches long from stops.
Machine No. 14 has clamping plates 47 inches long from stops.
Machine No. 15 has clamping plates 36 inches long from stops.

This machine will be made to open any distance desired between the two clamp plates. Please specify distance when ordering.

Weight of No. 9, 10 and 11 about 1500 lbs. No. 12, 13, 14 and 15 about 1000 lbs.

If you desire a Clamp that will absolutely square your work, give any pressure desired and stand up under heavy strain, order the guaranteed "HANDY" End Clamp.

"HANDY" End and Frame Clamp



Clamp Machine shown above has the same construction and the same specifications as End Clamp on page 1. In addition, it has at each end, opposite the adjustable stops, a 1" screw fixture with a 6" wheel and handle.

These fixtures can be moved out to edge of plate (see holes in illustration), if needed, to get pressure in place desired. This arrangement makes this the best single machine for clamping up any kind of glass frames for cases, as there is hardly any need for wood shapes.

Machine No. 16 has clamping plates 96" from stops, and takes in 91" between stop and screwplate.

Machine No. 17 has clamping plates 90" from stops, and takes in 85" between stop and screwplate.

Machine No. 25 has clamping plates 84" from stops, and takes in 79" between stop and screwplate.

Machine No. 26 has clamping plates 71" from stops, and takes in 66" between stop and screwplate.

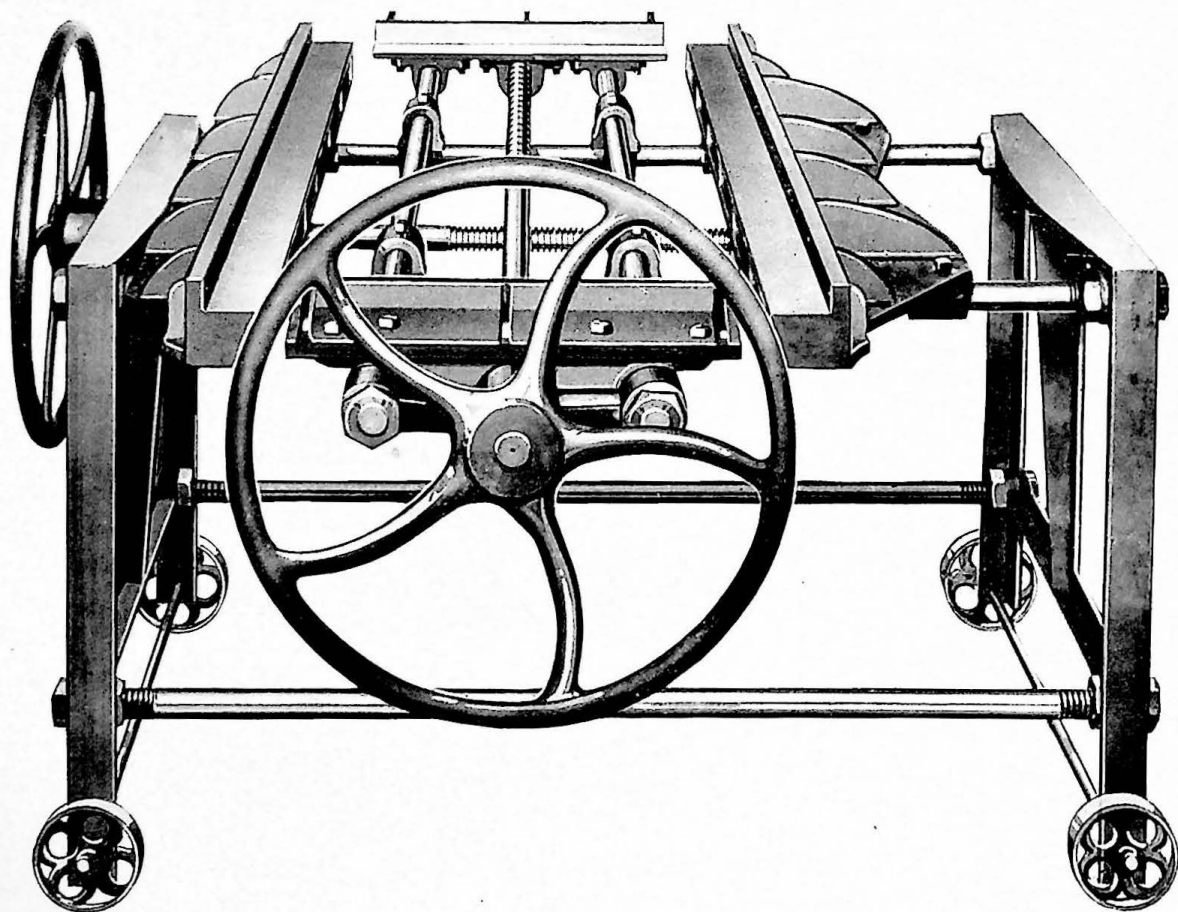
Machine No. 27 has clamping plates 60" from stops, and takes in 55" between stop and screwplate.

Machine No. 28 has clamping plates 47" from stops, and takes in 42" between stop and screwplate.

Machine No. 29 has clamping plates 36" from stops, and takes in 31" between stop and screwplate.

In ordering, specify the opening up desired between the two clamp plates. Weight of No. 16, 17 and 25 about 1500 lbs., of No. 26, 27, 28 and 29 about 1000 lbs.

"HANDY" Two-way End Clamp



This machine is built to clamp up four sides on any stock that requires two-way pressure. Machine is our regular End Clamp illustrated on page 1. The added Crossway attachment can be adjusted both ways so as always to line up in the center of work. Crossway attachment has left screw thread, which makes it easy for operator to work both screws at one time. This machine should be used in almost every woodworking factory. We have customers using as many as ten machines.

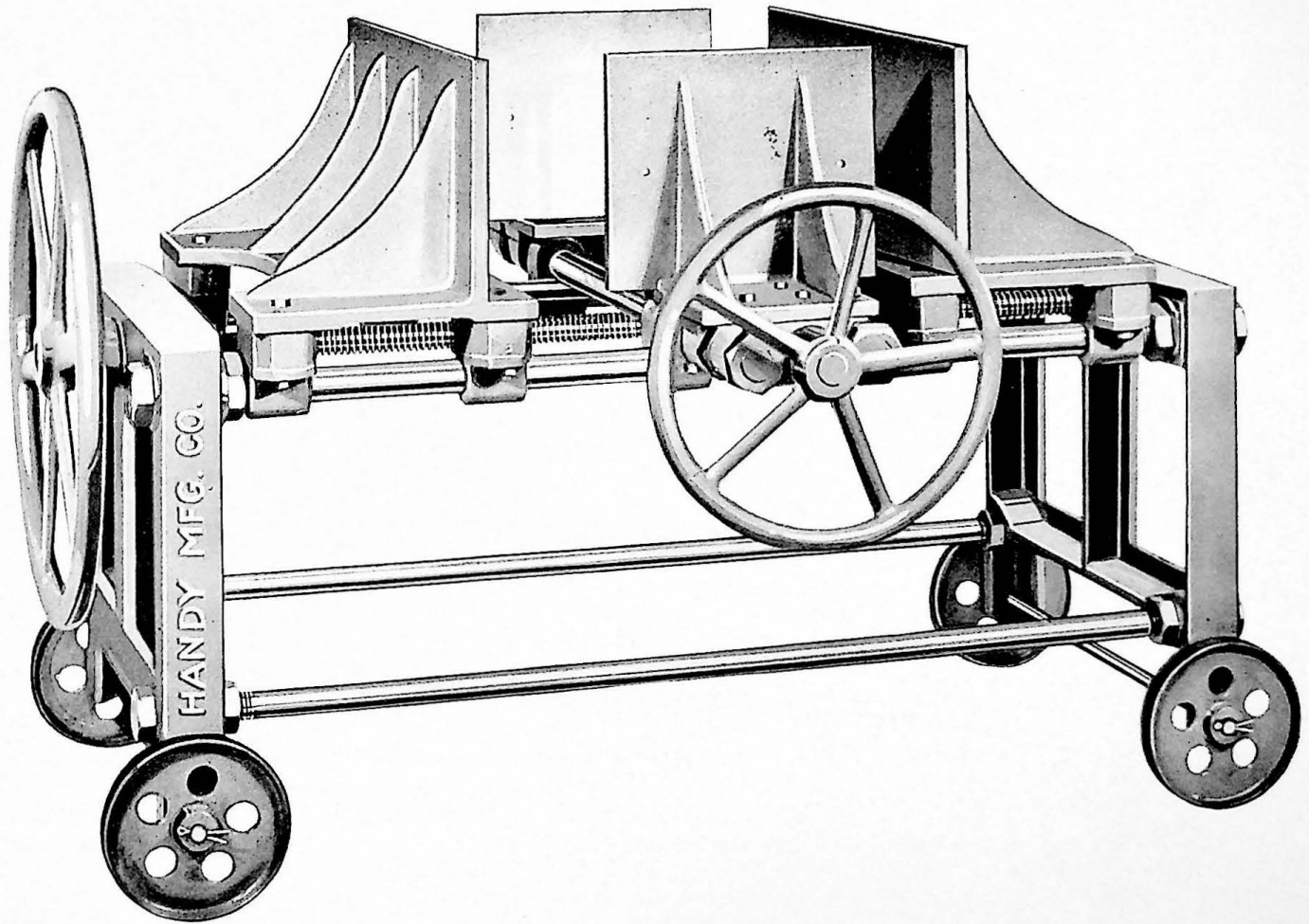
Machine No. 18 has large clamping plates 96 inches long.
Machine No. 19 has large clamping plates 90 inches long.
Machine No. 20 has large clamping plates 85 inches long.
Machine No. 21 has large clamping plates 72 inches long.
Machine No. 22 has large clamping plates 56 inches long.
Machine No. 23 has large clamping plates 48 inches long.
Machine No. 24 has large clamping plates 37 inches long.

See page 19 for this clamp with air power.

The short crossway clamping plates are made for above numbers, to take in the narrowest work. For instance, if your work should vary from 40" x 15" to 55" x 24", you would want Machine No. 22 to open 24" with crossway clamp plates 14½" long to open 56".

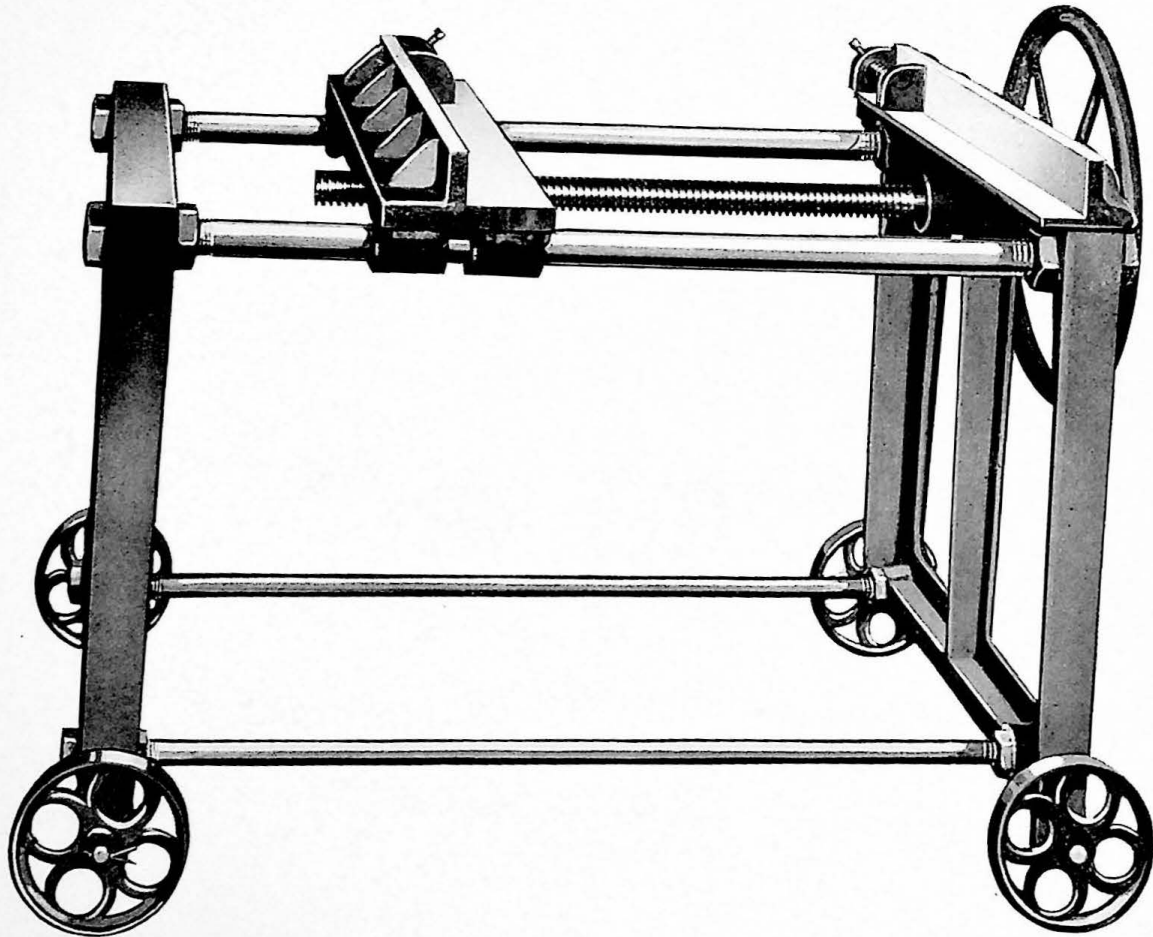
When ordering, give maximum and minimum sizes of stock to be clamped. Weight of Machine No. 18, 19 and 20 about 2000 lbs. No. 21, 22, 23 and 24 about 1250 lbs.

"HANDY" Two-way Cabinet Clamp No. 33



Clamp illustrated above can be furnished to take work of any size. We will quote on your specifications. Standard size as shown has 2 clamp plates 28" long and opposite 2 plates are 14" long. All are 12" high and will clamp and square any work from 14" x 14" up to 28" x 24" and up to 12" in height. Crossway plates are operated with left screw thread which makes it easy for operator to work both screws at the same time. It can also be used as one way clamp on work where four way pressure is not needed. We have one customer using 36 of these clamps on production work. Weight 1250 lbs. Machine No. 33.

"HANDY" End Clamp No. 30



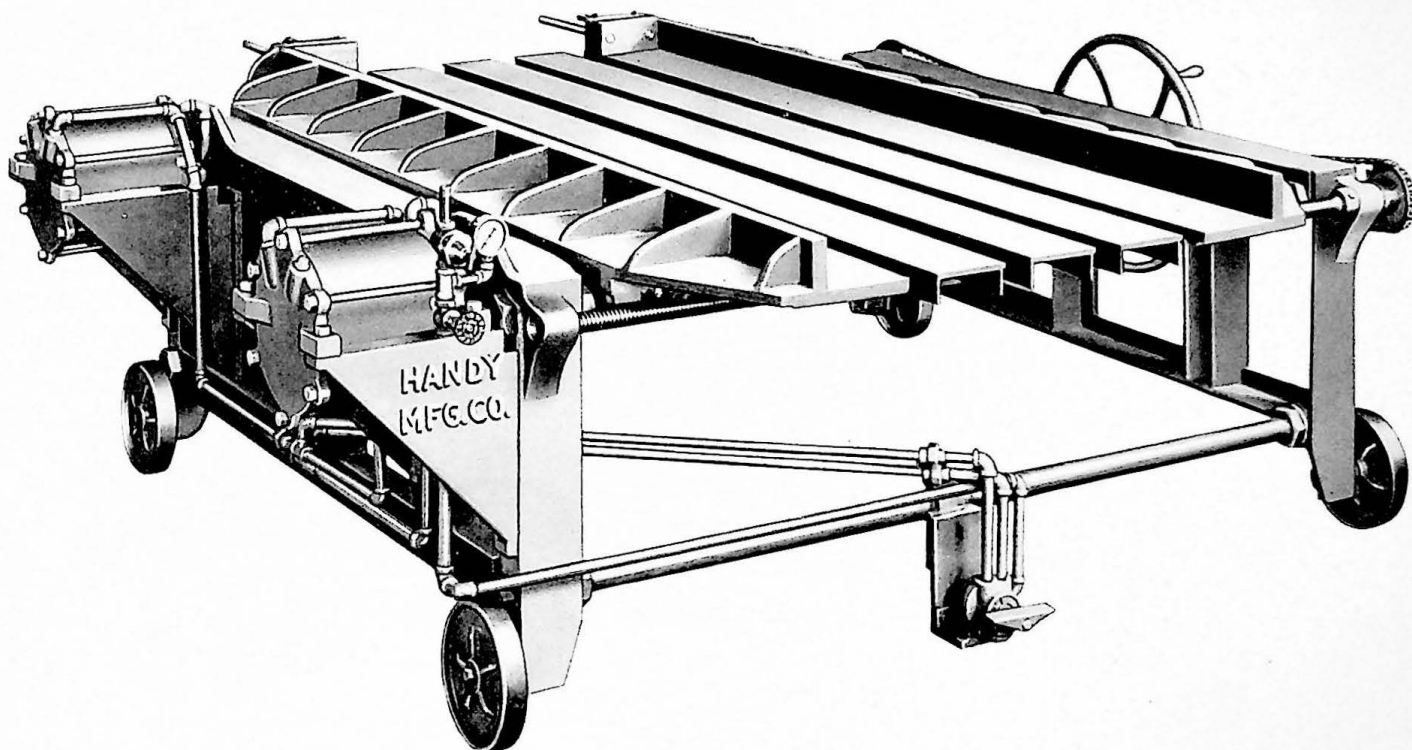
This machine is suited for small work not requiring our larger sizes, illustrated on page 1. Clamping jaws or plates are 27 inches long from stops and are 2 inches high and will open 32 inches and close to 6½ inches. Can be made to open more when specified. Wheel for tightening is 24 inches in diameter. Easy and quick to operate, as back plate moves towards operator by means of long Quick-Acting Screw 1½ inches in diameter, thus doing away with stops, which sooner or later get out of order.

This machine will absolutely square your work. It is extensively used for clamping up doweled, or tongued and grooved joint chair seats. Weight 430 lbs.

Machine No. 30, as illustrated.

Machine No. 31, with air pressure.

"HANDY" Air Operated Door Clamp



Clamp illustrated above in 96 inch length of clamp plates was designed for clamping heavy and large work, such as garage doors, ladders, large section panels, etc.

It is very heavily constructed and will be furnished to open up any distance specified between the two clamp plates.

It is equipped with oversize "Leak Proof" $1\frac{1}{2}$ inch stroke air cylinders, so as to give ample pressure on all types of work.

If longer stroke is required, please specify.

So as to enable operator to regulate air pressure to suit the various jobs, we have added a reducing valve with air gauge which will make it possible to get practically whatever pressure required. It is also equipped with a speed regulating valve, which will enable the operator to adjust the speed to suit the work that is being clamped.

On sizes of clamps up to and including 144 inch length of plates, we equip clamp with 2 air cylinders and up to and including 192 inch length plates with 3 air cylinders.

Air valve being operated by foot, gives the operator the use of both hands in guiding the work.

Setting up to various widths is done by revolving the wheel shown at back part of clamp. This connects with chain and sprockets to $2\frac{1}{2}$ inch screws having a fast 3 pitch acme thread and running the full length of clamp, similar to arrangement shown on page 7.

There are no stops to wear out, get out of line or break.

Standard size height of jaw on clamp plates is $3\frac{1}{2}$ " but we will furnish them with higher or lower jaws on request.

Standard clamps close down to 7 inches, and are equipped with adjustable steel, squaring stops.

Machine No. 424 has clamping plates 96 inches long from stops. Weight 3800 lbs.

Machine No. 425 has clamping plates 120 inches long from stops. Weight 3950 lbs.

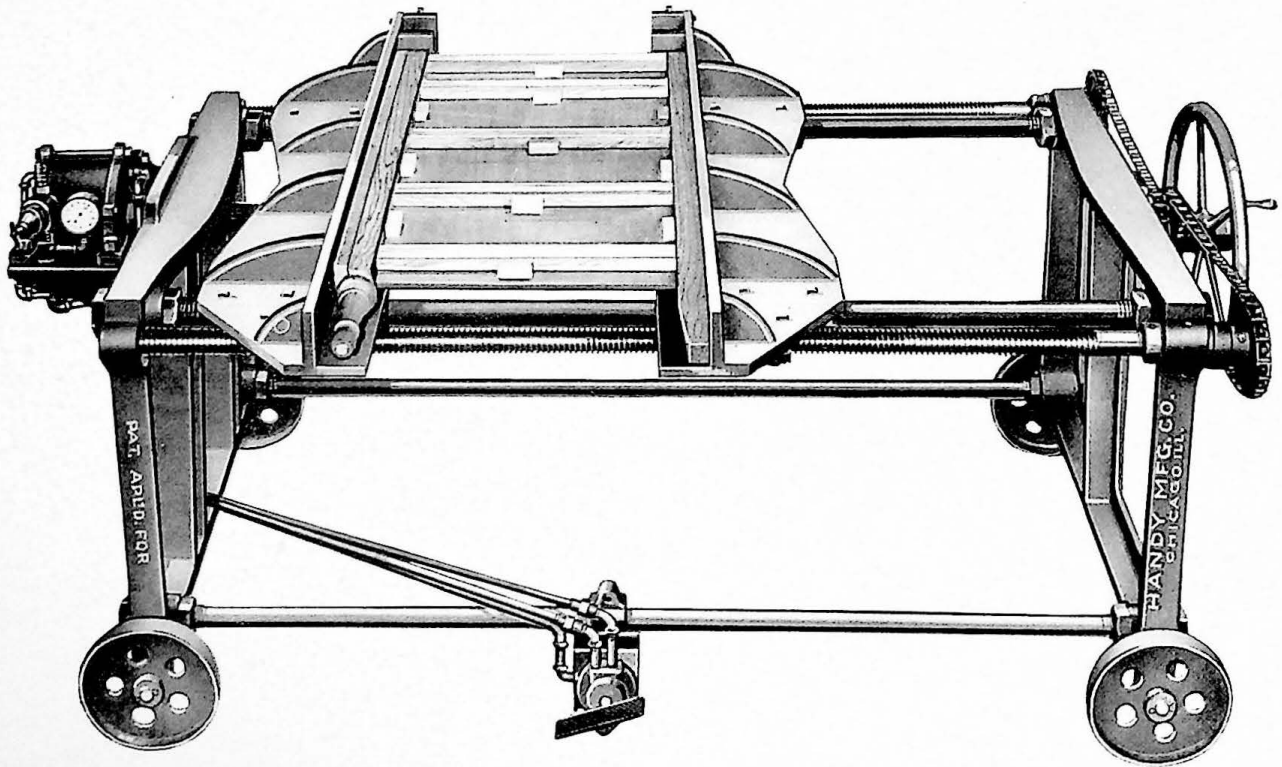
Machine No. 426 has clamping plates 144 inches long from stops. Weight 4100 lbs.

Machine No. 427 has clamping plates 168 inches long from stops. Weight 4600 lbs.

Machine No. 428 has clamping plates 192 inches long from stops. Weight 5300 lbs.

We will quote on any size in between those listed above.

"HANDY" Air Operated End Clamp



"HANDY" End Clamps will always square the work, whether it is Case ends, Doors, Frames, Panels or Bed ends, etc.

Description on page eight

"HANDY" Air Operated End Clamp

THE "HANDY" AIR OPERATED END CLAMP is quick as a flash and built to stand up under the hardest test.

Air valve being operated by foot, gives the operator the use of both hands in guiding or holding the work.

Setting up to various sizes is done by revolving the wheel, at opposite end from air cylinder, which connects with chain and sprockets the two 1½-inch screws running the full length of clamp.

This can also be utilized at any time when air supply should fail, thus making this a COMBINATION AIR AND SCREW PRESSURE CLAMP.

It is equipped with oversize 1⅞-inch stroke air cylinder, so as to give sufficient pressure on all types of work and to insure economy in operation. If longer stroke is required please specify. To regulate air pressure to suit, we have added a reducing valve with air gauge which will permit operator use and apply any amount of pressure desired from the full amount of 80 or 100 lbs. in the tank down to practically nothing. It is also equipped with a speed regulating valve, which will enable the operator to adjust the speed to suit the work that is being clamped.

It is advisable to start new operation with reducing valve adjusted to show about 50 lbs. and increase from there on.

Standard size height of jaw on clamp plates is 3½ inches, but we can furnish them with higher or lower jaws if desired.

All Clamp plates close down to 6 inches and are equipped with adjustable steel squaring stops.

Machine No. 416 has clamping plates 90 inches long from stop.
Machine No. 417 has clamping plates 84 inches long from stop.
Machine No. 418 has clamping plates 71 inches long from stop.
Machine No. 419 has clamping plates 60 inches long from stop.
Machine No. 420 has clamping plates 55 inches long from stop.
Machine No. 421 has clamping plates 47 inches long from stop.
Machine No. 422 has clamping plates 36 inches long from stop.

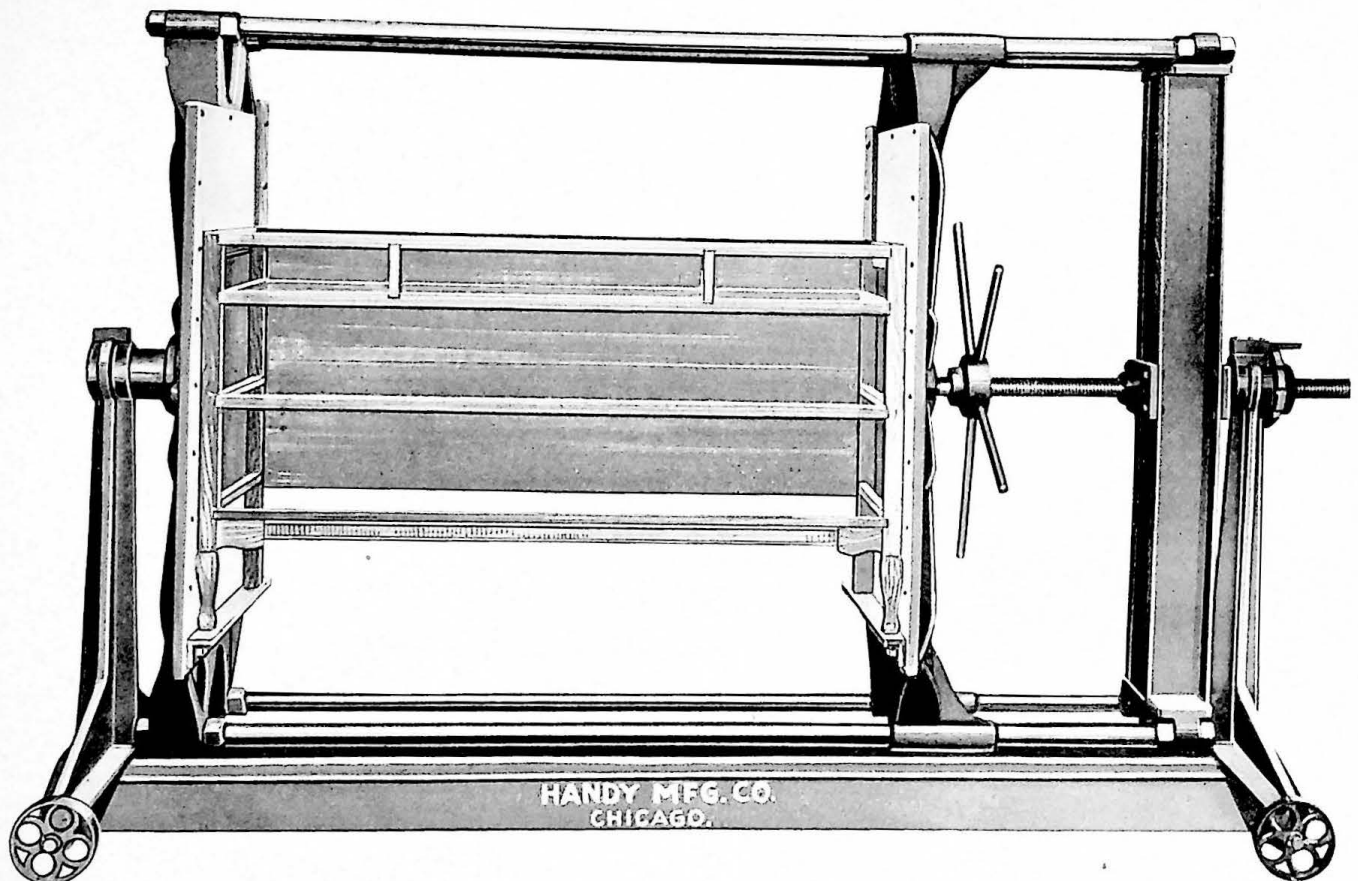
No. 416 and 417 are equipped with two air cylinders, balance with one.

Any of these machines will be furnished to open up whatever distance desired between the two clamp plates.

Please give us size of opening up when ordering, to avoid delay.

Weight of Nos. 416 and 417 about 1,750 lbs., balance of numbers about 1,200 lbs.

"HANDY" Revolving Case Clamp



An absolute necessity in a Case Goods Factory is to have a strongly built Case Clamp. You will never know the merits of a "Handy" Case Clamp until you install one.

This Clamp is now used by 99% of the furniture manufacturers and is considered standard equipment.

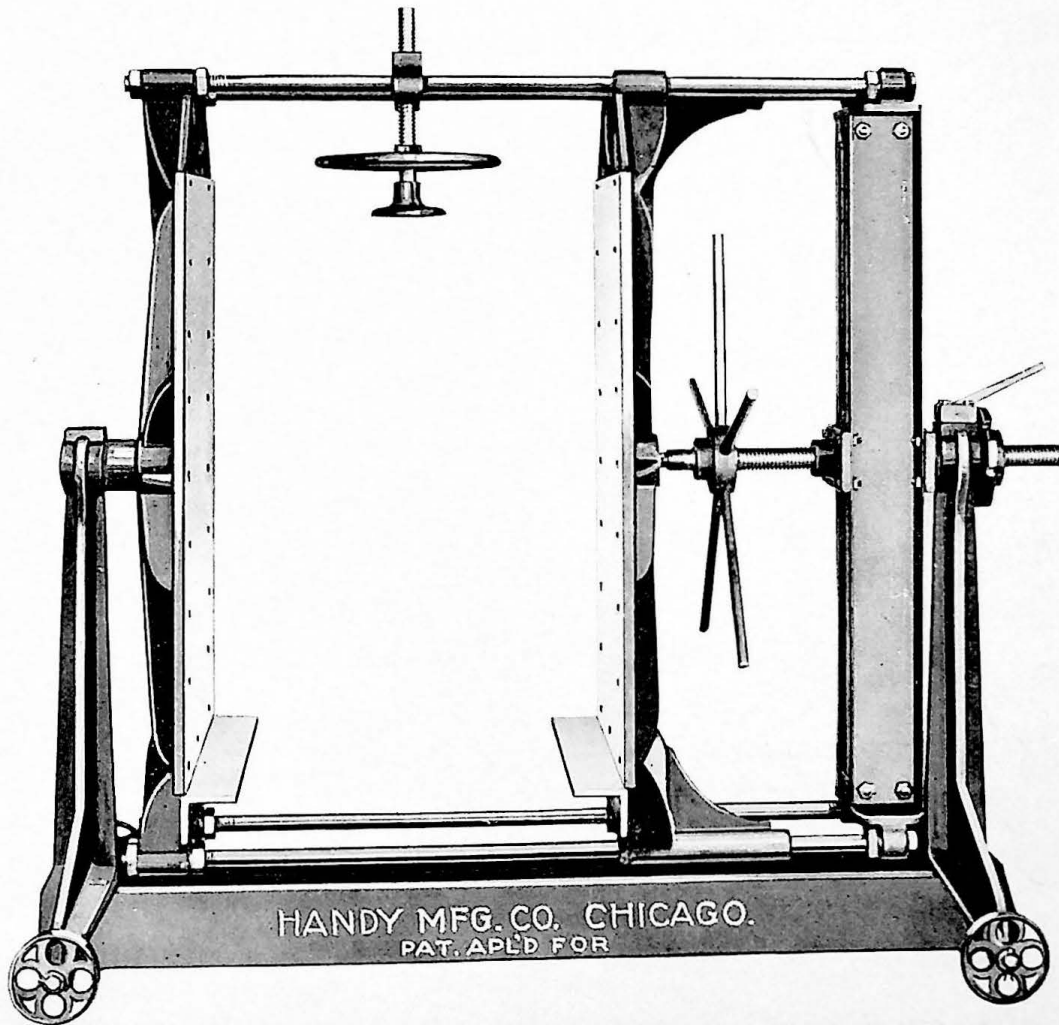
"Handy" Revolving Case Clamp will absolutely square your cases, as back plate is stationary and will not give. Planed surfaces on plates are 48"x27" and each has $\frac{3}{8}$ " holes drilled 5" apart on all four sides, for bolting on fillets and shapes. Distance between upper and lower rods is 59 $\frac{3}{4}$ ". If larger planed surfaced than 48"x27" is desired, we can furnish with 56"x28" at an additional price of \$15.00. Pressure is applied by quick-acting 2" diameter screw. After clamping the case, revolve it to any angle to allow operator to work on either front, back or bottom. Sprocket wheel for applying pressure is 35" in diameter, giving great pressure with little effort. Sprocket wheel as illustrated or rim wheel as shown on page 12 is optional. All sizes are equipped with steel platforms.

We also make this clamp with planed surface 56 $\frac{1}{4}$ "x26" and to measure 66 $\frac{1}{4}$ " between upper and lower rods, so as to accommodate higher cases. Add an additional cost of \$30.00 to each list price. For desk manufacturers we quote on a special size, with plates 35" wide.

Machine No. 69	will open up 78" and close to 25".
Machine No. 70	will open up 72" and close to 20".
Machine No. 71	will open up 60" and close to 15".
Machine No. 71 $\frac{1}{2}$	will open up 48" and close to 15".
Machine No. 72	will open up 30" and close to 15".

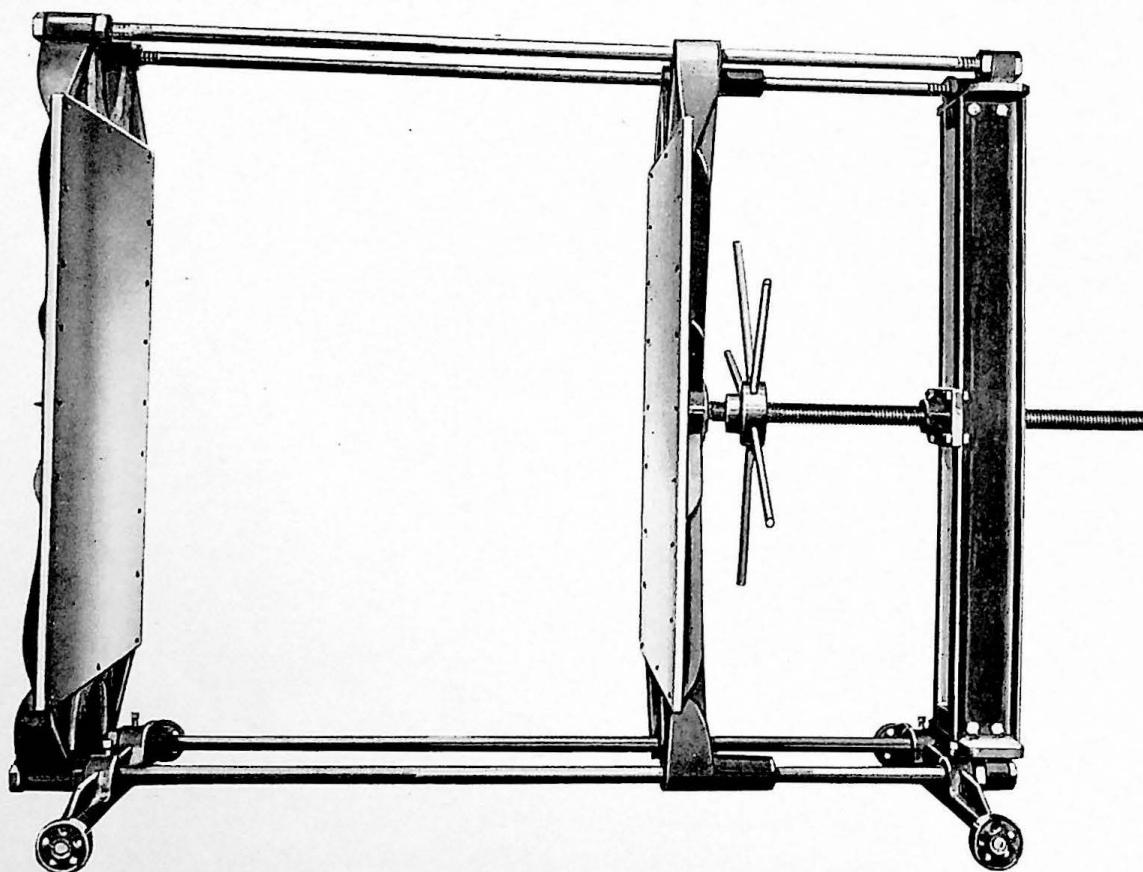
Weight about 2150 lbs.

"HANDY" Revolving Case Clamp with Top Pressure Attachment



This shows machine same as on page 9, but equipped with adjustable top pressure screw attachment, to be used wherever needed. Several of these can be placed on each machine. Add \$20.00 for each to prices on list for various sizes of revolving or stationary clamps.

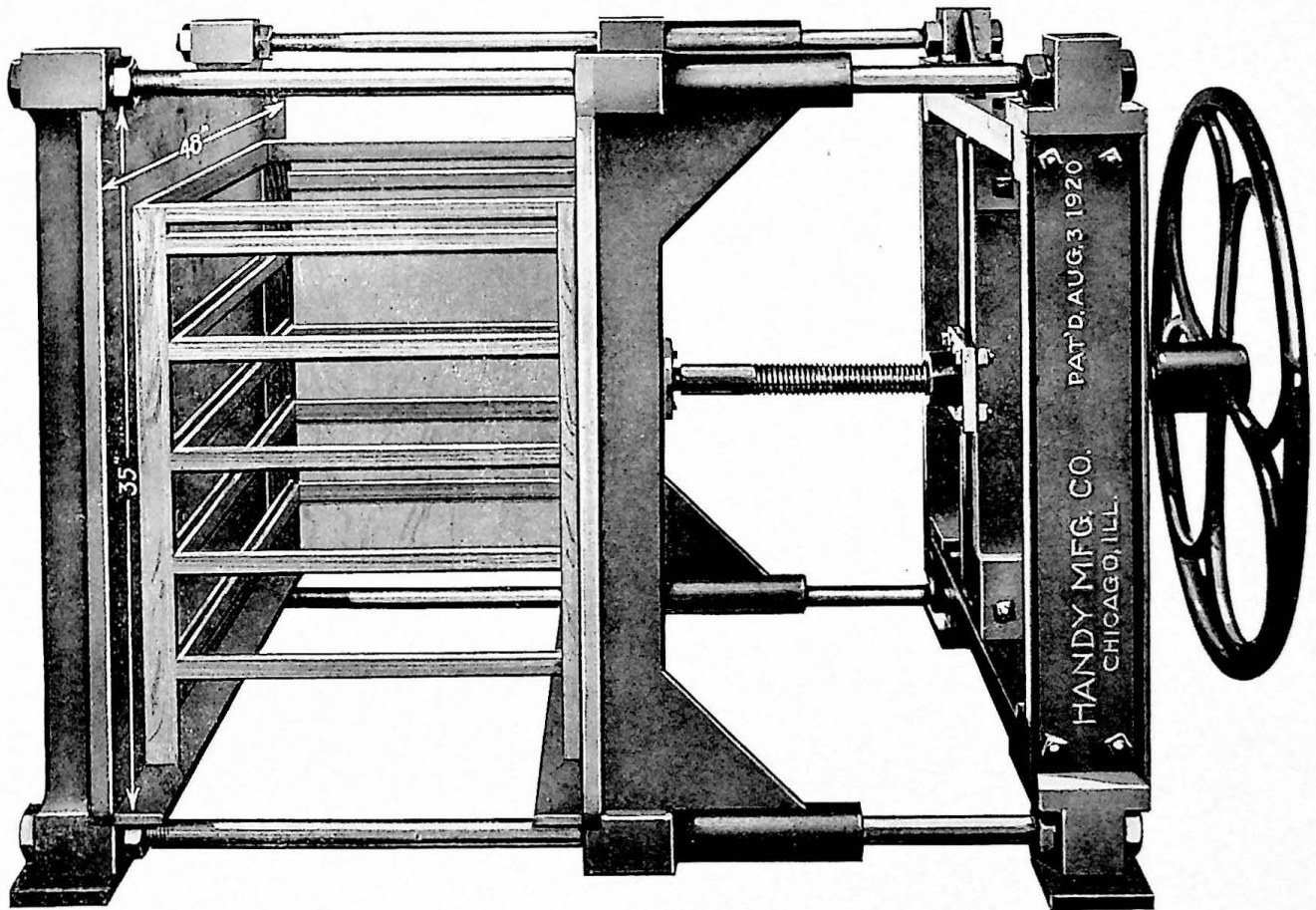
"HANDY" Stationary Case Clamp



For any Case assembling where the revolving feature is not needed. This machine has the same specifications and construction as machine on preceding page, except that it does not revolve. This clamp is now equipped with steel platforms as shown on pages 9 and 10.

- | | |
|-----------------|---------------------------------------|
| Machine No. 79 | will open up to 78" and close to 25". |
| Machine No. 80 | will open up to 72" and close to 20". |
| Machine No. 81 | will open up to 60" and close to 15". |
| Machine No. 81½ | will open up to 48" and close to 15". |
| Machine No. 82 | will open up to 30" and close to 15". |
- Weight about 1300 lbs.

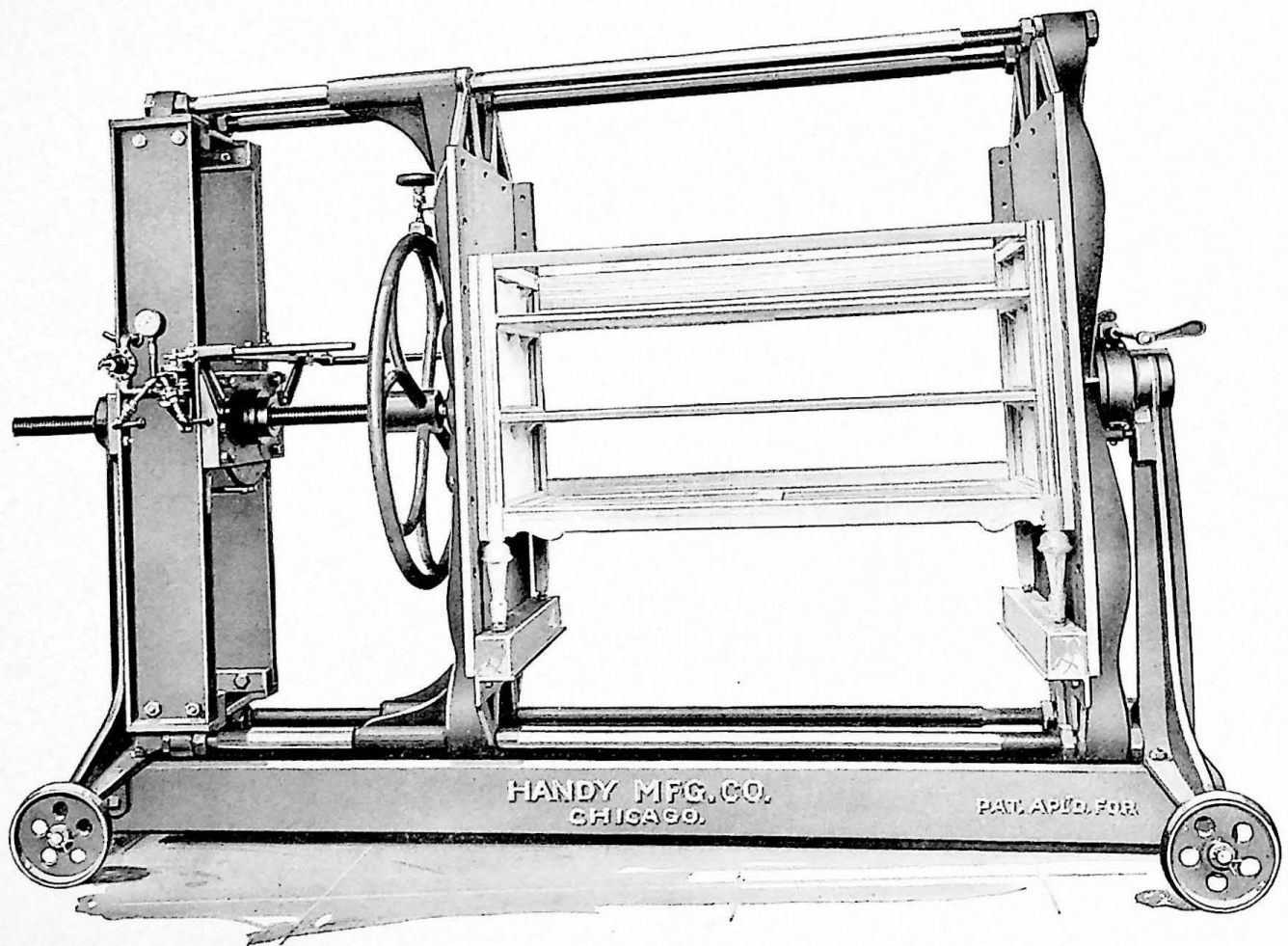
"HANDY" Stationary Case Clamp No. 94



This Stationary Case Clamp is built close to the floor so that no lifting is necessary in placing work on the platforms and is best suited for work such as kitchen cabinets and desk ends. Clamping plates have a planed surface 48" x 35", see measurements on cut. We furnish clamp to open up any distance specified between plates. Pressure screw is 2" in diameter and wheel for applying pressure is 35" in diameter. Weight about 2100 lbs.

Machine No. 94.

"HANDY" Air Operated Revolving Case Clamp



"HANDY" Revolving Case Clamps will absolutely square your cases as back plate is stationary and cannot give.

After clamping the case, revolve to any angle desired, to allow operator to work on either front, back, top or bottom.

Description on page fourteen

"HANDY" Air Operated Revolving Case Clamp

This air operated Revolving Case Clamp, illustrated on opposite page, retains all the good features of our well known Screw Operated Clamp shown on page 9.

The adjusting to different size of cases is done as before with the long 2" diameter screw, which can also be used for clamping in emergency if air supply should fail.

Therefore this is really a Combination Air and Screw Pressure Clamp.

It is equipped with over-size air cylinder so as to give sufficient pressure on all kinds of work.

To insure economy in operation and also to regulate air pressure to suit various needs, we have added a reducing valve with air gauge, which will permit operator to use and apply any amount of pressure desired, from the full amount of 80 to 100 lbs. carried in tank, down to practically nothing.

It is advisable to start new operation with reducing valve adjusted to show about 50 lbs. and increase from that point. We also equip clamp with a speed regulating valve, which will enable the operator to adjust the speed to suit the work that is being clamped.

We have provided a lock against the rim of 35" diameter wheel so that after clamp is adjusted to a certain size case, it will stay in that position.

We have also provided an instant acting brake which will lock clamp in any position and is near to the operator at all times.

This brake as well as the air valve operating levers are made to operate from both sides of clamp.

Steel platforms and steel side stops are furnished as regular equipment on all clamps. All the slide rods are 1 $\frac{3}{4}$ " diameter so as to make clamp more rigid and positive.

Planed surface on all standard clamps is 48"x27" and distance between upper and lower rods is 59 $\frac{3}{4}$ ".

We also make this clamp with planed surface 56 $\frac{1}{4}$ "x26" and to measure 66 $\frac{1}{4}$ " between upper and lowers rods at an additional cost of \$30.00 to each standard size list price.

We can furnish our standard clamp also with 56"x28" planed surface on plates at an additional cost of \$15.00 to each standard size list price, and will quote on any special size required.

Machine No. 400 will open up 80" and close to 25".

Machine No. 401 will open up 74" and close to 20".

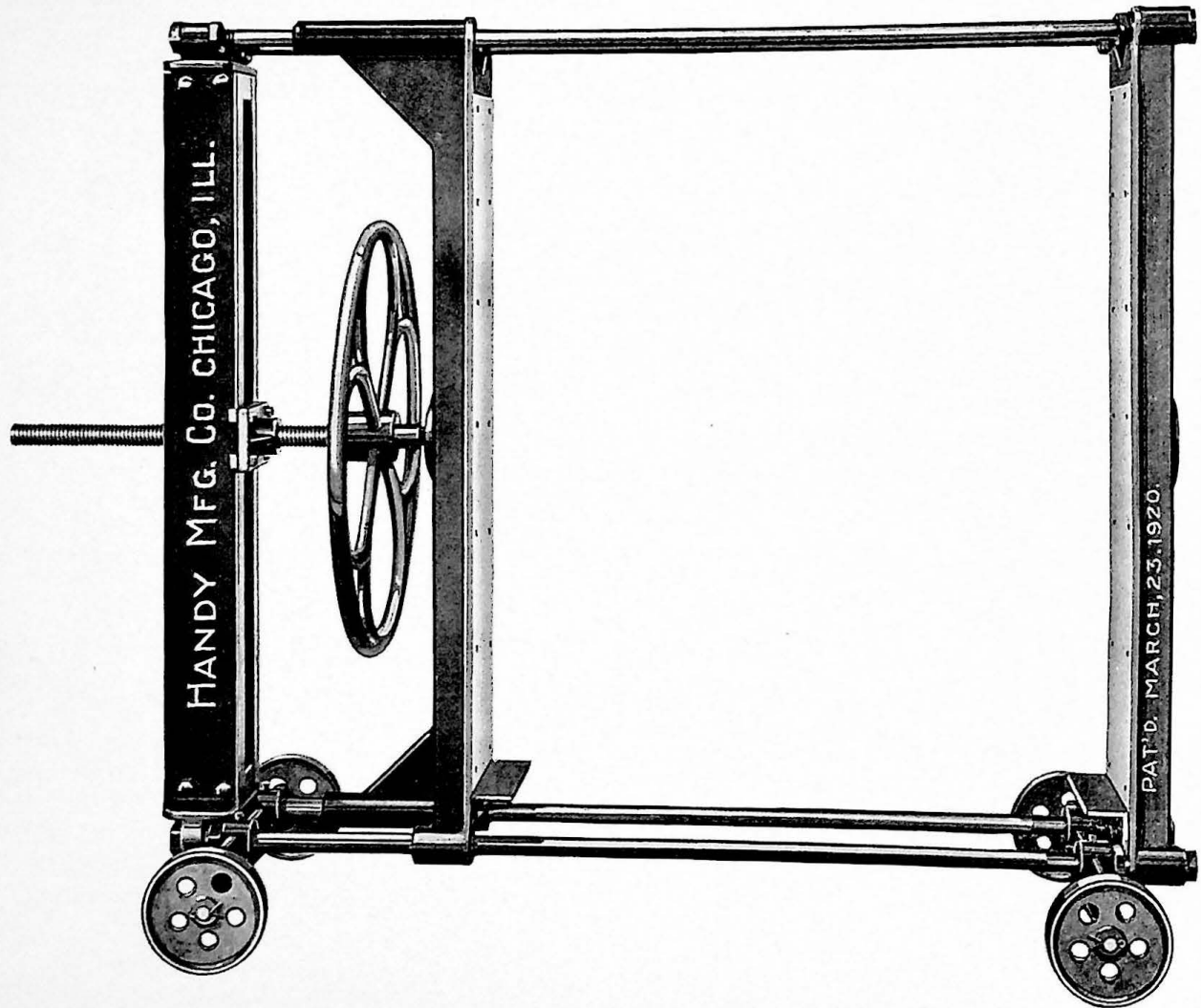
Machine No. 402 will open up 60" and close to 15".

Machine No. 403 will open up 48" and close to 15".

Machine No. 404 will open up 30" and close to 10".

Weight about 2800 lbs.

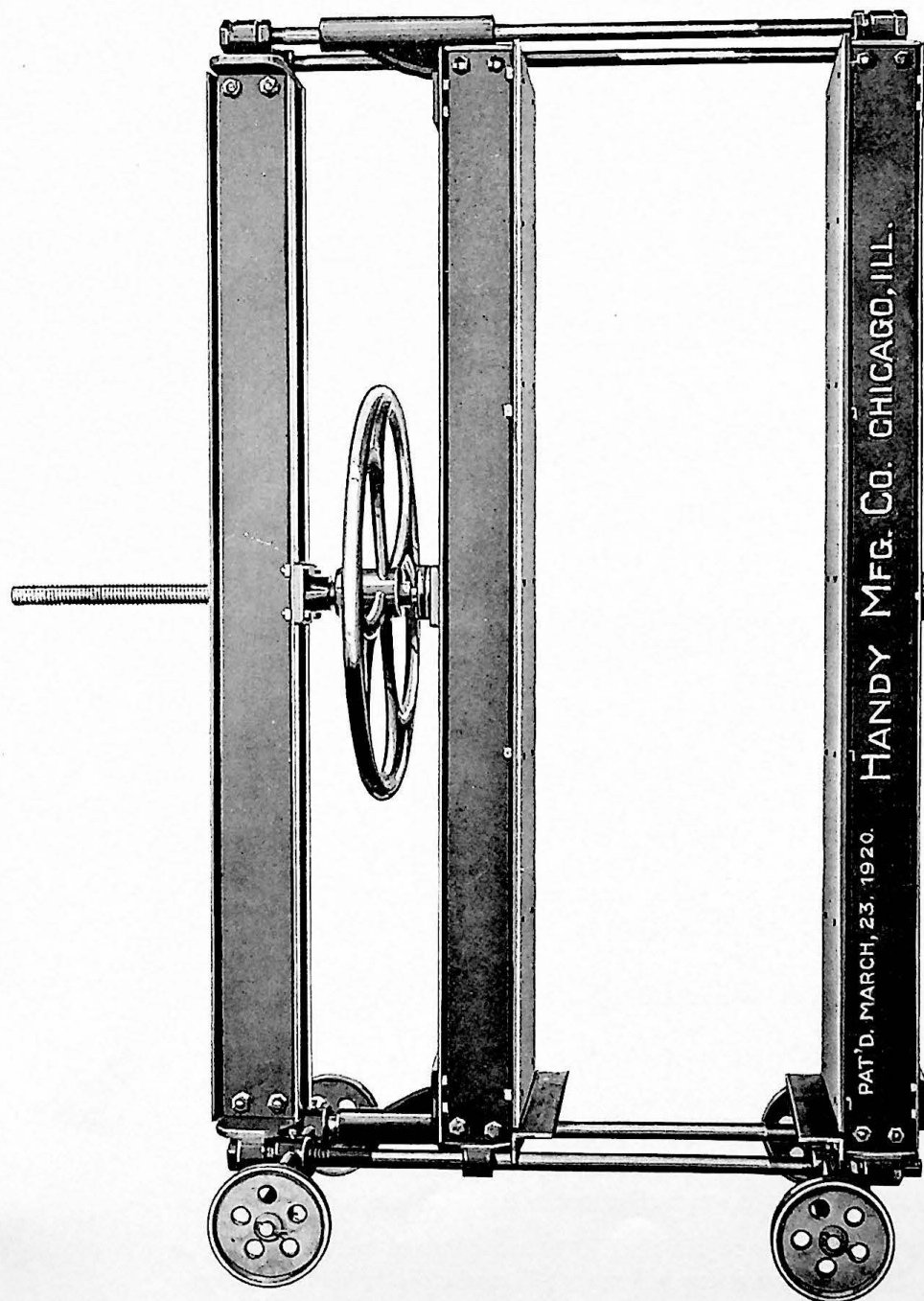
"HANDY" Stationary Case Clamp No. 95



This Stationary Case Clamp is smaller in size than one shown on page 11 and is better adapted for work such as top cabinet on kitchen cabinets, book cases, etc., where the revolving feature is not needed. Planed surface is 52"x12" and standard size takes 54" between plates. Weight about 1200 lbs.

Machine No. 95.

"HANDY" Stationary Case Clamp No. 96

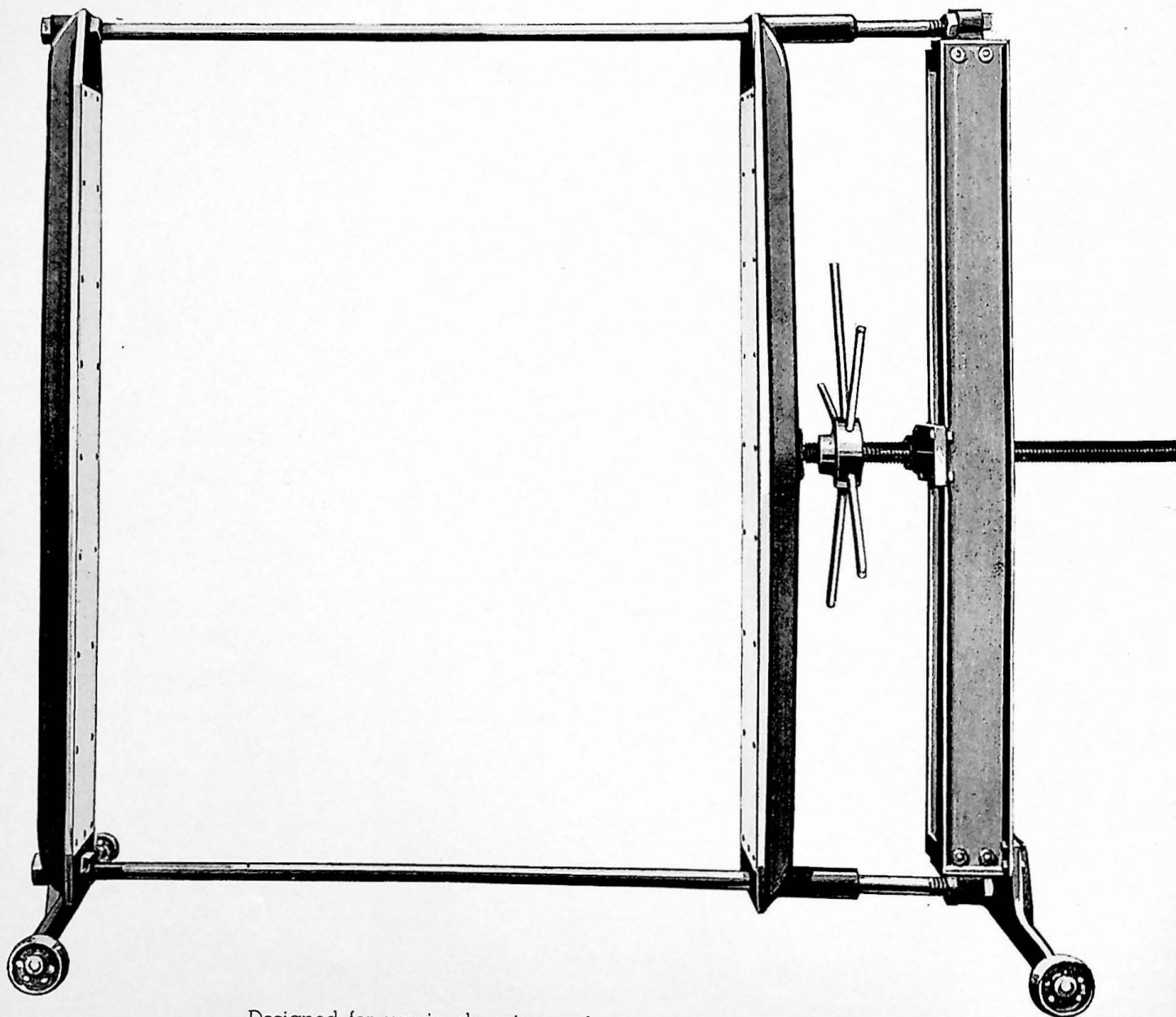


This Stationary Case Clamp is similar to the one shown on page 15 except that surface of plates is $85\frac{1}{4}'' \times 21''$ with standard size opening of 48''. This clamp is suited for built-in cabinets or any other work requiring a clamp of this height. We can furnish this type clamp in any height and narrow width desired. Also with larger opening.

Weight about 1700 lbs.

Machine No. 96.

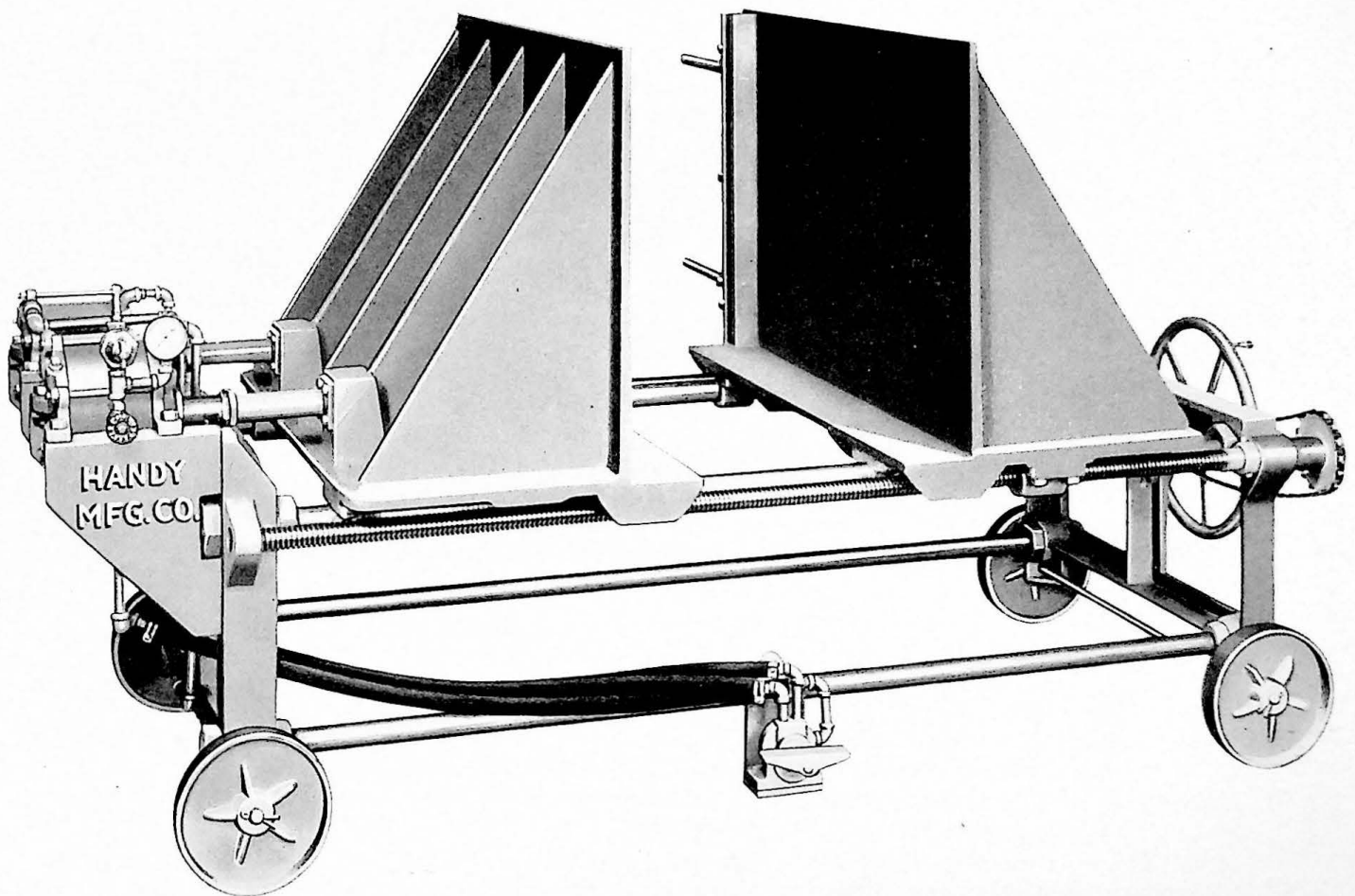
"HANDY" Bed Clamp No. 100



Designed for use in clamping and squaring heavy Bedsteads or similar work; also for Cabinets within its range. Stationary back plate is made of steel.

Plates have a planed surface of 66"x10 $\frac{3}{4}$ ", and distance between upper and lower rods is 72". Standard size will open 69" and close to 30". It has a quick-acting 2" screw and pressure is applied by sprocket wheel 31" in diameter. This clamp is now furnished with steel platforms as standard equipment. Weight about 1000 lbs. Machine No. 100.

"HANDY" Air Operated Case and Clamp No. 61



This air powered Clamp of heavy construction is ideal for production work on Cases and Cabinets where the revolving feature is not needed.

It is powered with two 2" stroke oversize air cylinders and is equipped with speed and air reducing valves.

If longer stroke than 2" is desired, please specify.

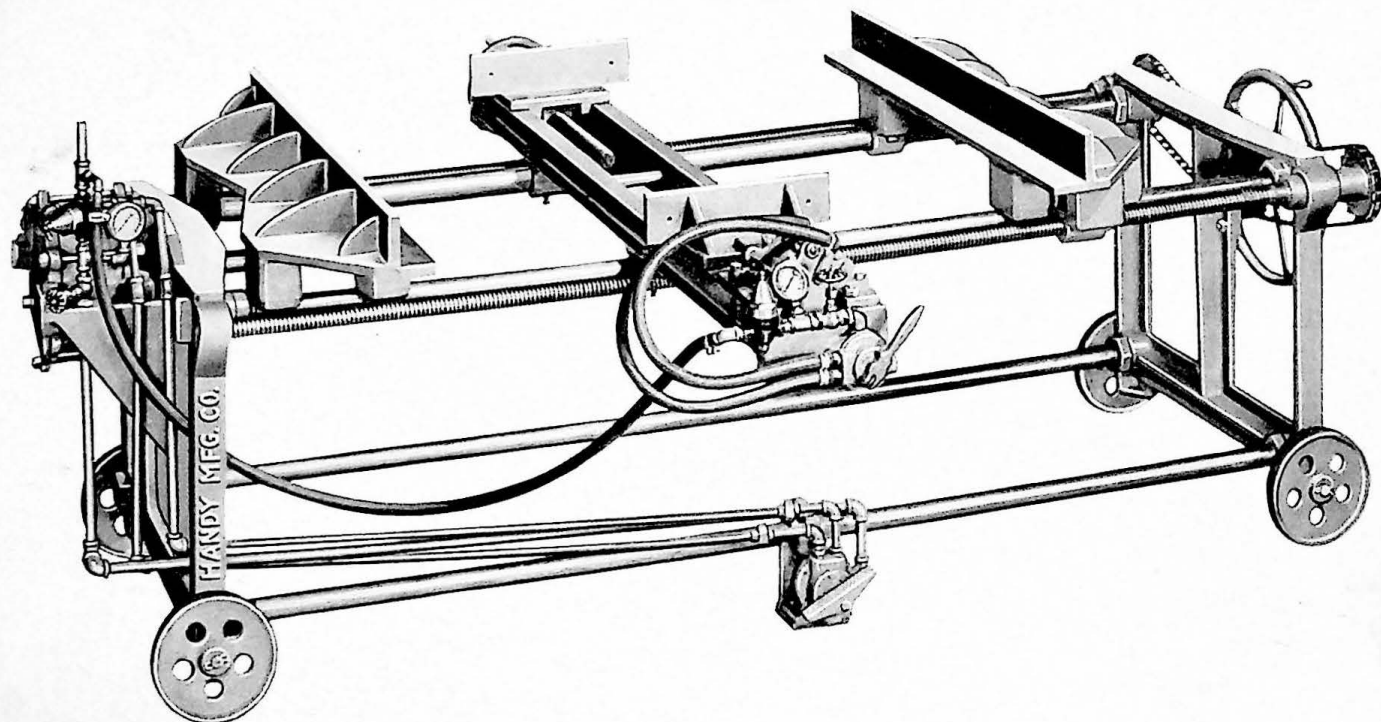
Setting up to various sizes is done by hand wheel, at opposite end from air cylinders, which connects with chain and sprocket the two heavy screws running the full length of Clamp.

Standard size of clamp plates are 45" long from stops, 24" high and opening up between clamp plates is 30" and 10" closing. If larger opening is desired, please specify.

Weight 2750 lbs.

Machine No. 61.

"HANDY" Air Operated Two Way End Clamp



This heavily built, for quantity production, Air Clamp, is made to stand up under the toughest working conditions, and standard LEAK PROOF air cylinders have a $1\frac{1}{2}$ " stroke. Longer stroke can be furnished, if desired. The large clamp plates are operated by a foot valve and the crossway clamp plates by a hand valve, so that no time is lost in applying pressure both ways.

It is equipped with PRESSURE regulating valve and air gauge and also with SPEED regulating valve to control the operating speed of cylinders.

Setting up for various sizes of work, is done by simply turning the two hand wheels which operate the adjusting screws. This gives the exact spacing desired and does away with stops, that sooner or later, get out of order. In addition, it enables you to operate Clamp both ways with screw-power, if and whenever air supply should be out of service.

The crossway clamp plate unit can be adjusted to give pressure at any point needed, by simply sliding same to position desired.

All standard clamp plates are $3\frac{1}{2}$ " high. Special sizes to your order.

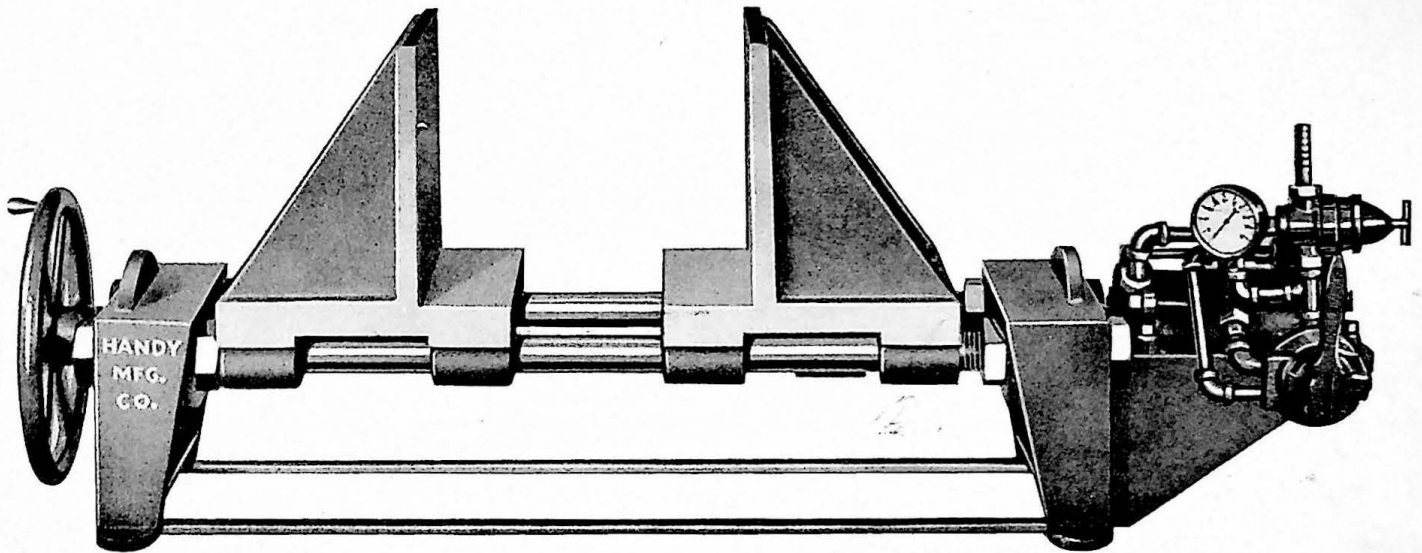
Machine No. 440 has large clamping plates 96" long.
Machine No. 441 has large clamping plates 90" long.
Machine No. 442 has large clamping plates 85" long.
Machine No. 443 has large clamping plates 75" long.
Machine No. 444 has large clamping plates 61" long.
Machine No. 445 has large clamping plates 56" long.
Machine No. 446 has large clamping plates 48" long.
Machine No. 447 has large clamping plates 37" long.

WHEN ORDERING, PLEASE SPECIFY the length of SHORT Crossway Clamp Plates and also the opening up desired between the two LARGE Clamp Plates.

The three largest sizes have two air cylinders operating the large clamp plates. Other sizes have one, as per above illustration.

Weight of Nos. 440, 441 and 442, approximately 2700 lbs. Balance approximately 1900 lbs.

"HANDY" Air Operated Bench Cabinet Clamp No. 435



A quick and accurate clamp for all work within its range. Clamp plates are 12" wide, 10" high and will be made to open up any distance specified up to 24" at price quoted. We will quote on larger openings. Clamp plates will close down to 7". Back plate is adjusted for various sizes of opening by turning the wheel at end of clamp, thus eliminating the setting and tightening of stops.

It is equipped with oversize "Leak Proof" 1 1/2" stroke air cylinders, so as to give ample pressure on all types of work.

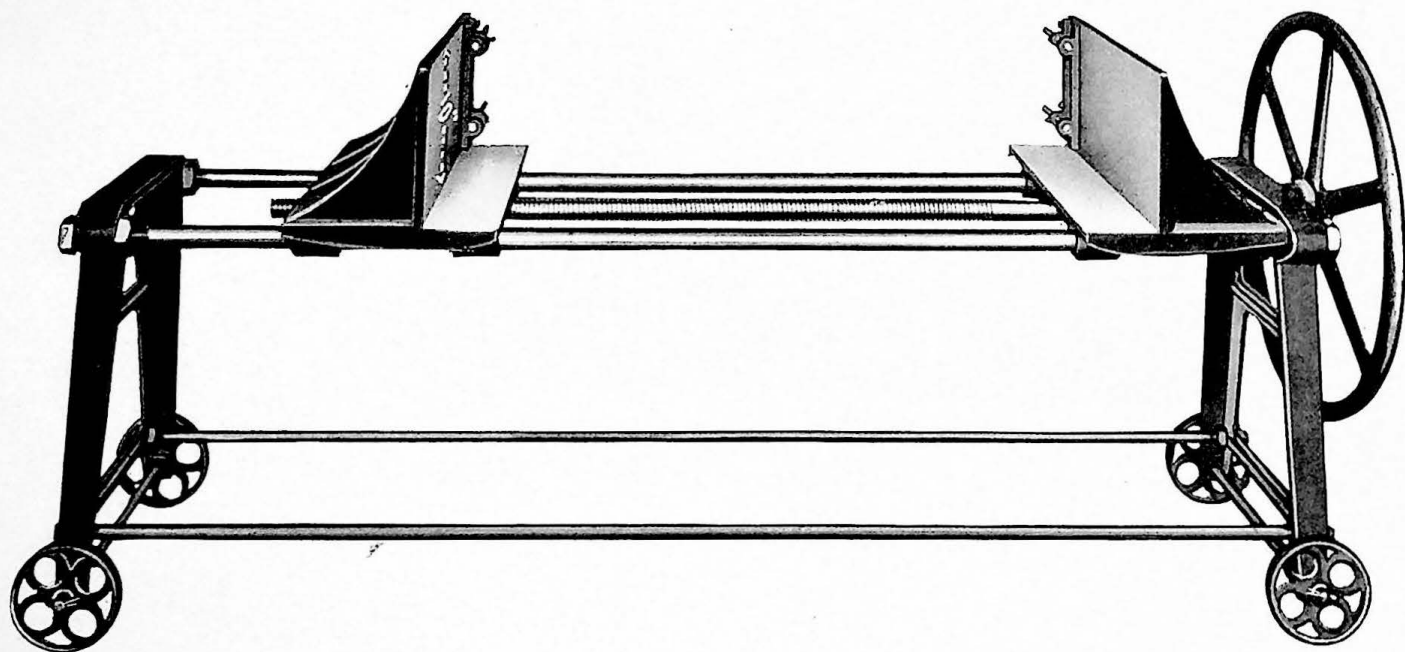
If longer stroke is required, please specify.

So as to enable operator to regulate air pressure to suit the various jobs, we have added a reducing valve with air gauge, which will make it possible to get practically whatever pressure required. We also equip clamp with a speed regulating valve, which will enable the operator to adjust the speed to suit the work that is being clamped.

Operating valve enables operator to start and stop at any point. We can furnish this clamp with any size clamp plates desired. Weight 430 lbs.

Machine No. 435.

"HANDY" Drawer Clamp No. 40



This Drawer Clamp is quick-adjusting, all steel and iron; will clamp and square work up to 23" in width and 10" in depth and will close up to 8". This machine will be made to open any distance desired. Please specify distance when ordering. Front plate is stationary. Back plate is operated by quick-acting 1½" screw, thus eliminating unreliable stops, which sooner or later get out of order.

Edges on clamping plates are planed, so that drawers with lips or stops projecting, can be clamped without using fillets on sides.

Clamping Plates are equipped with planed stops, giving 6" adjustment.

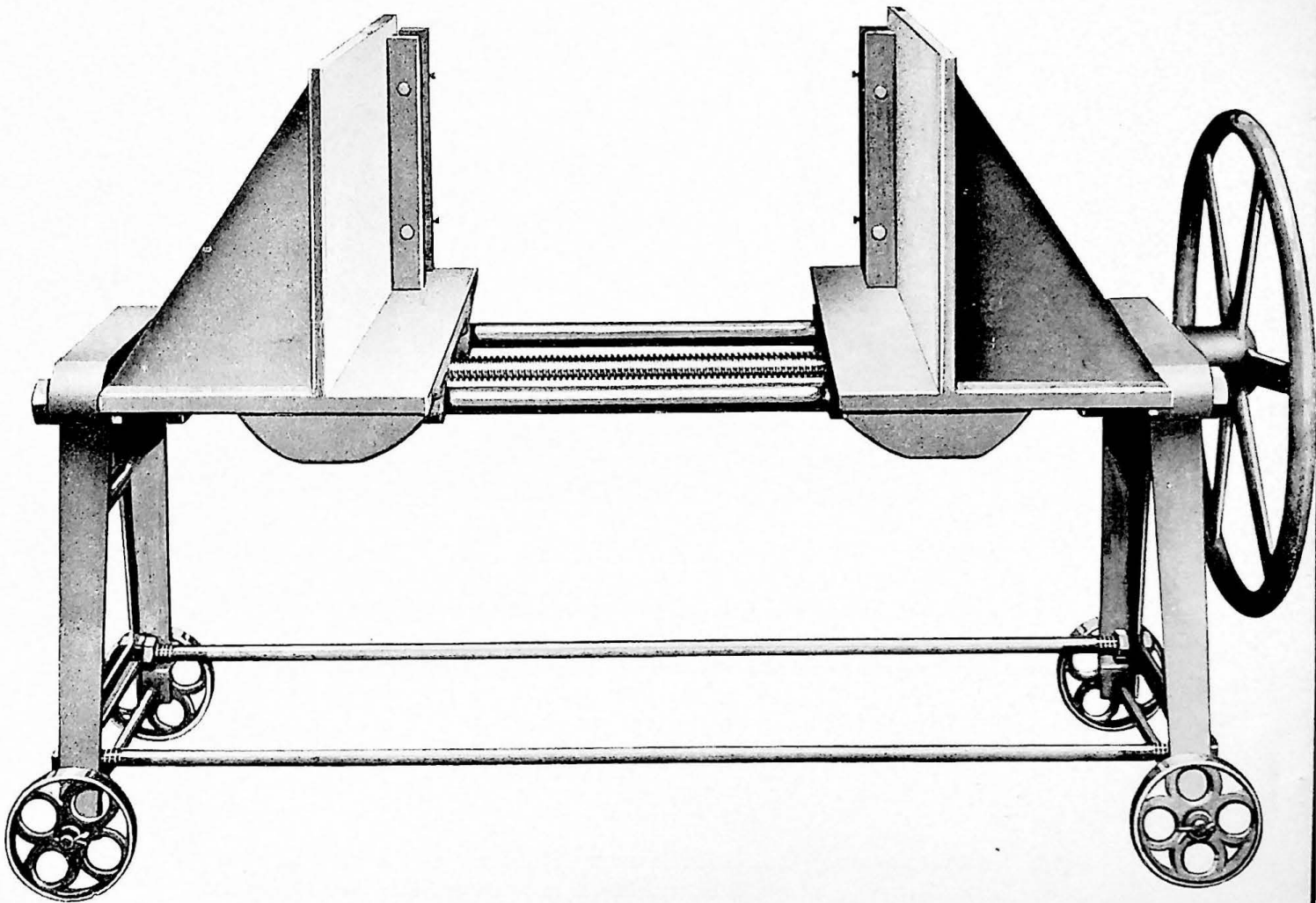
Wheel for applying pressure is 28" in diameter.

This machine gives added speed, durability and accuracy.

Weight 800 lbs. Machine No. 40, as illustrated.

Weight 950 lbs. Machine No. 41, with air pressure.

"HANDY" Cabinet Clamp No. 50



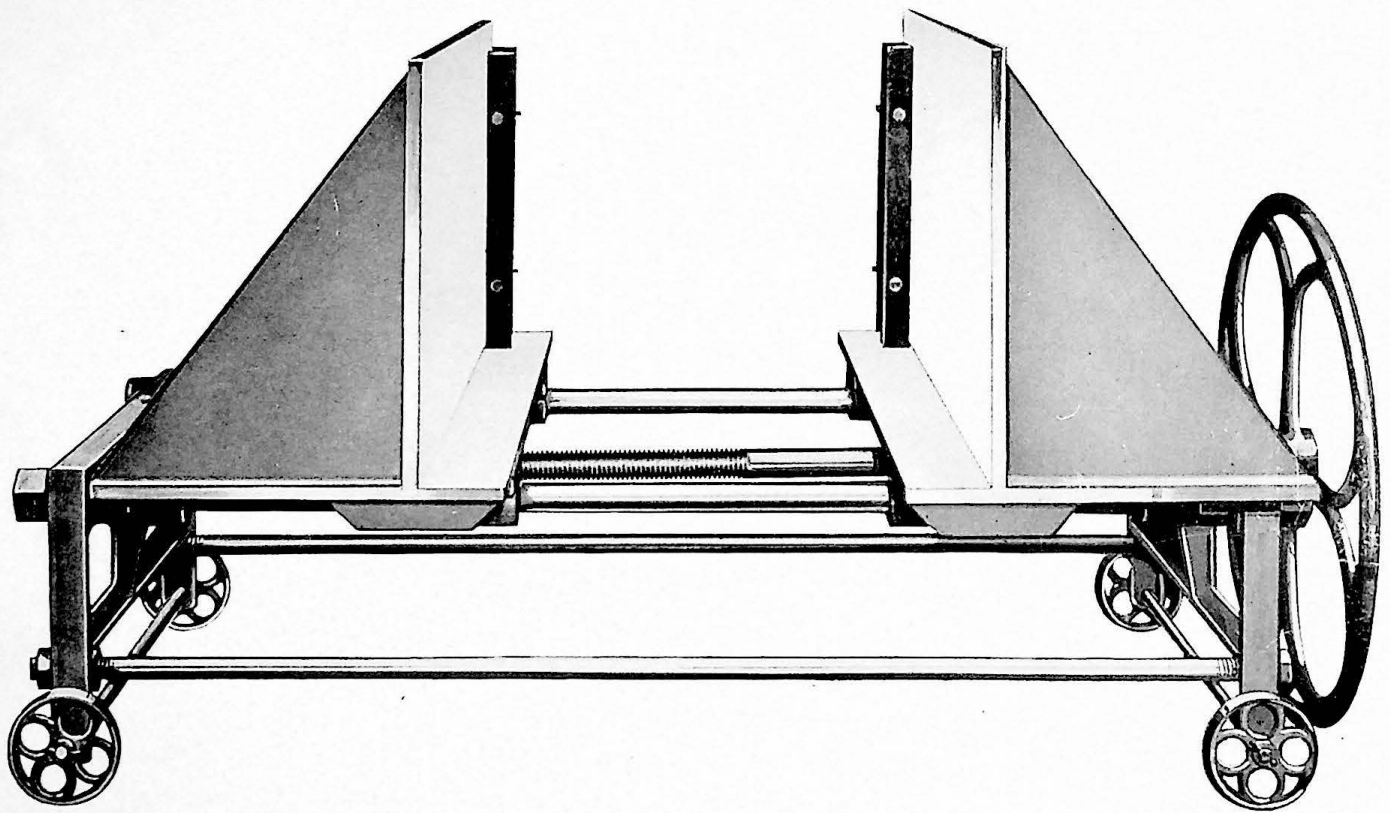
This machine opens up to 30" and closes to 13". Can be made to open more when specified. Clamping plates are 30" wide from stops and 15" high. We will quote on any size clamp plates desired if this size does not suit your work. Front plate is stationary. Back plate is operated by quick-acting 1½" screw running the length of machine, so that in changing from one size to another all that is needed is to revolve the wheel and plate will close or open to required distance. This method does away with unreliable stops, which sooner or later get out of order.

Clamping plates have stops giving an adjustment of 10". Wheel for applying pressure is 28" in diameter. Weight 1200 lbs.

Machine No. 50, as illustrated.

Machine No. 51, with air pressure.

"HANDY" Case Clamp No. 60

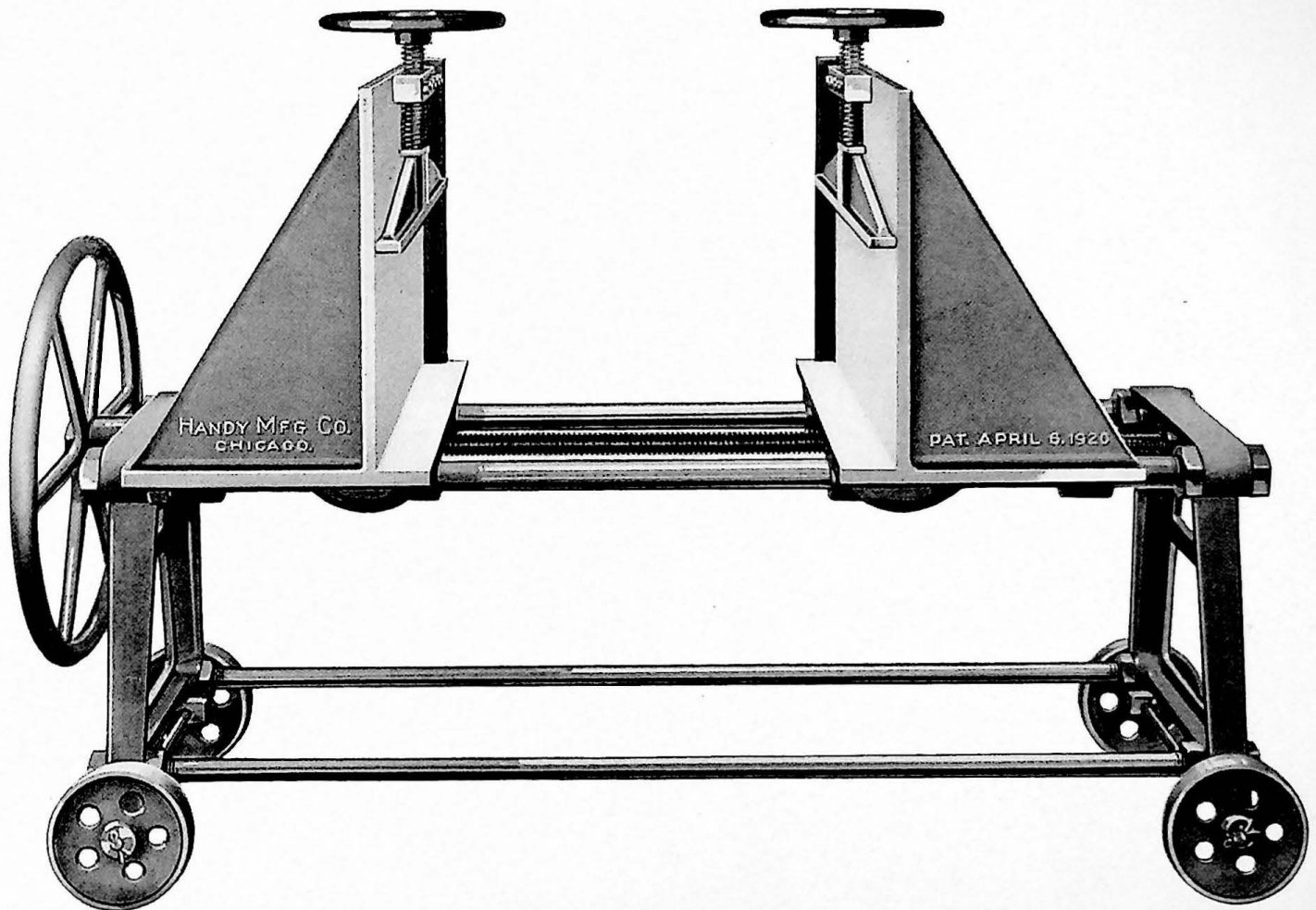


Heavy constructed Clamp for Cases or Cabinets to fill the demand where our Case Clamps on pages 9, 10 and 11 are not desired. This machine opens up to 30" and closes to 10". Can be made to open more when specified. Clamping plates are 45" wide and 24" high. Special sizes to your order. Front plate is stationary. Back plate is adjusted backward and forward by turning the wheel, which is 35" in diameter. This operates a quick-acting screw which has a diameter of 2" running the length of machine. Clamping plates are equipped with stops having an adjustment of 15". Weight 2600 lbs.

Machine No. 60, as illustrated.

For air powered Clamp of the same size see page 18.

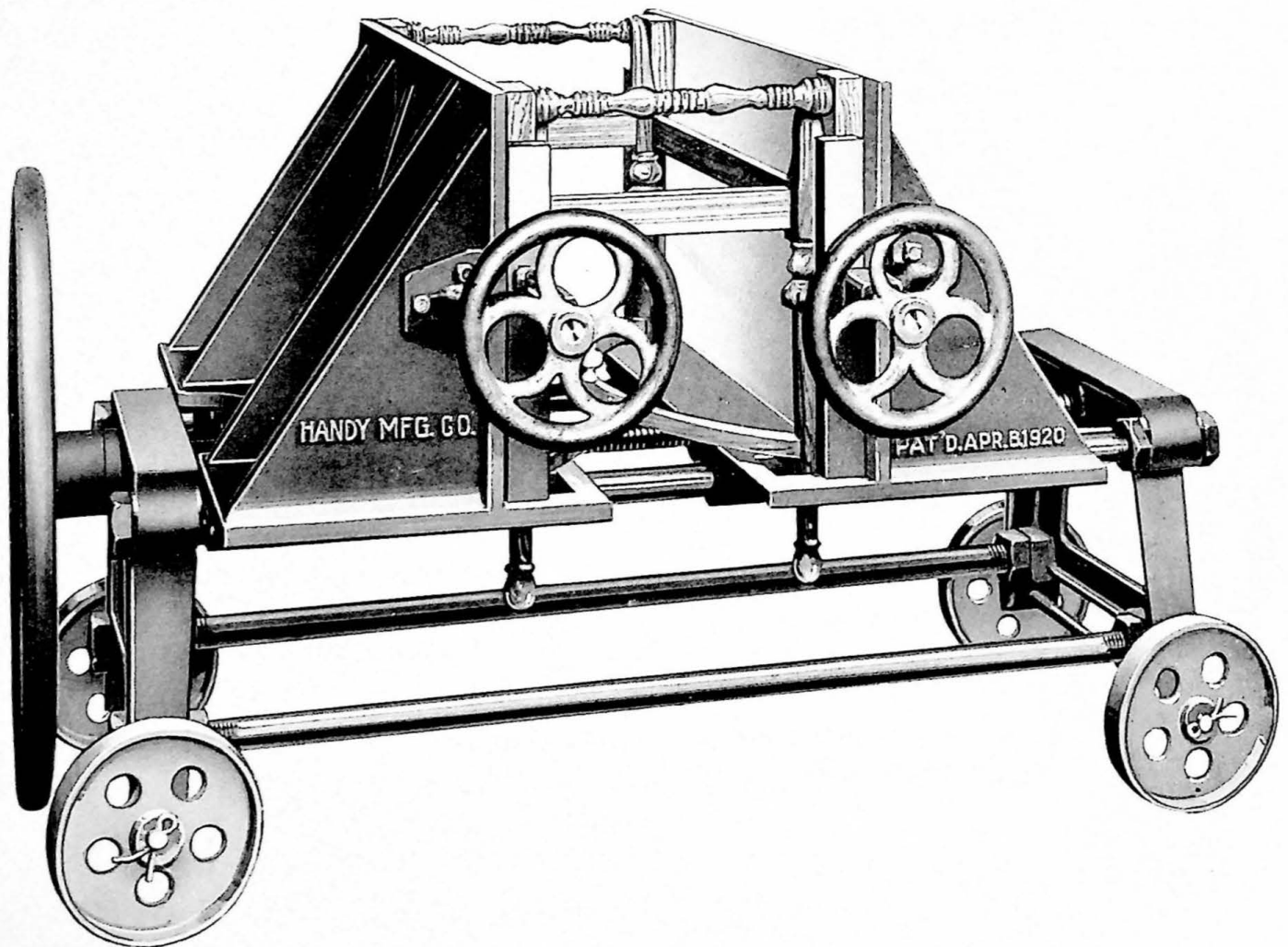
"HANDY" Cabinet Clamp No. 53



This Clamp is similar to those shown on pages 21, 22 and 23 except that it has two top pressure screws which can be furnished to take any height case under pressure plate. Standard size plates are $30\frac{1}{2}$ " wide from stops, $22\frac{1}{2}$ " high over all and 16" high under the top pressure plates. We can furnish this clamp with any size clamp plates desired and with or without top pressure screws. Standard size opens up 33" between the two plates. All pressure screws are $1\frac{1}{2}$ " diameter. Wheel for applying pressure lengthwise is 28" diameter and the two top pressure wheels are 12" diameter.

Weight about 1300 lbs. Machine No. 53.

"HANDY" Bench Seat Clamp No. 52

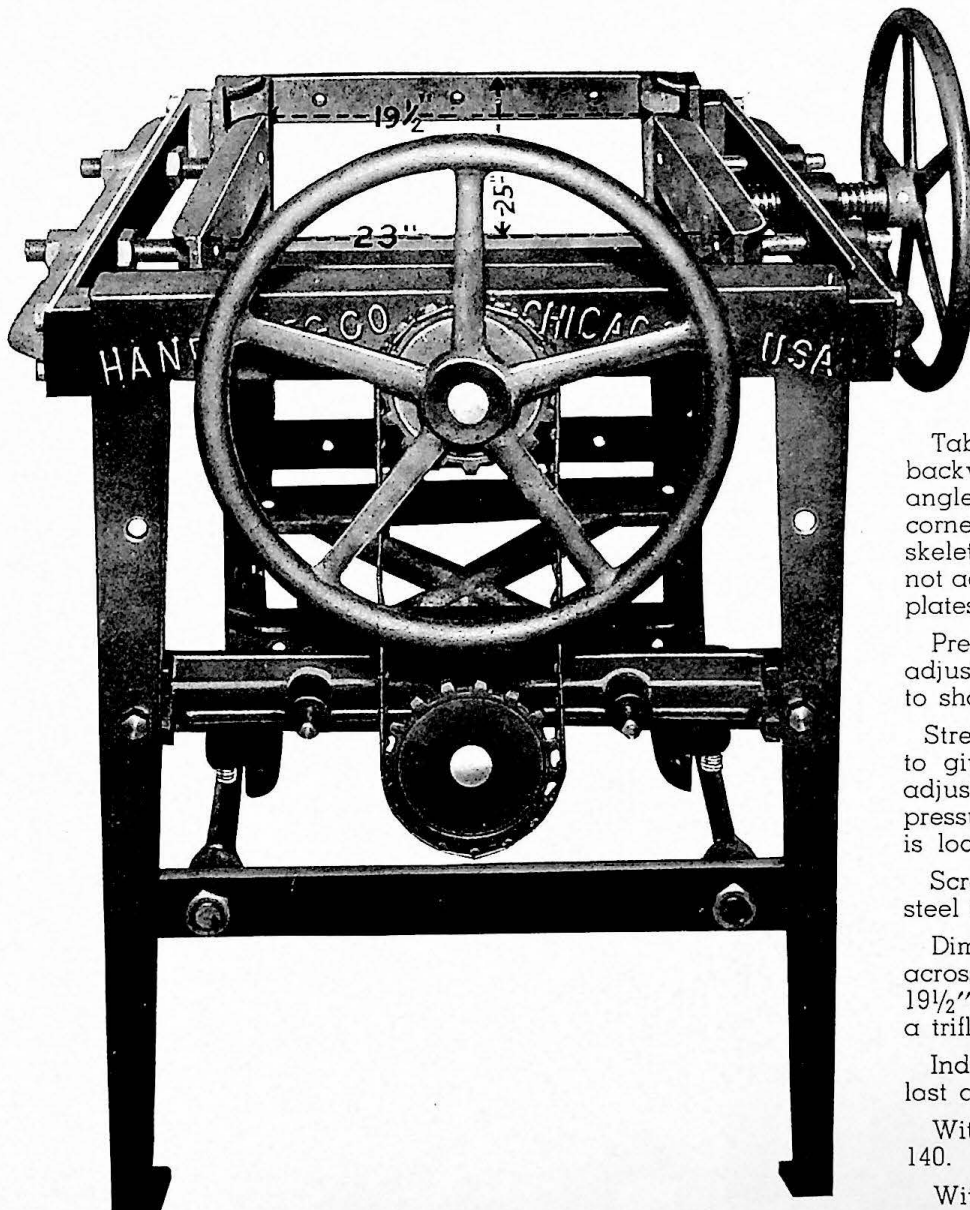


This Clamp is suited for a variety of work where two-way pressure is required. Front plate is stationary, back plate is operated by 28" wheel, attached to 1½" cold rolled screw running the full length of clamp. The clamp plates are 17" high and 30" wide and standard opening between plates is 24", but we will furnish to open up more if specified. Height from surface of plates to floor is 24". Holes are cut in surface plates to accommodate special high work as shown in cut, but are not furnished unless specified and measurements given. Side pressure screws are 1" diameter and wheels are 9" diameter.

Weight 1250 lbs. Machine No. 52.

"HANDY"

Chair Clamp with Attachment for Clamping Stretchers No. 141



You have been looking for a Clamp that will make EVERY CHAIR exactly alike, permitting seat to slip in without any adjusting.

Top of Clamp is flush with chair seat, making it easy for operator to screw on corner blocks.

It can be adjusted quickly to any size. Stop and pressure plates have holes to allow fastening of shapes or forms.

Table is adjustable forward and backward and to different heights and angles by means of $\frac{3}{4}$ " screws at each corner. It has a planed surface and skeleton design, so glue and dirt can not accumulate. All stops and pressure plates are planed.

Pressure plates and side stops will adjust to any angle, so as to conform to shape of chair.

Stretcher attachment can be adjusted to give any desired pressure and is adjustable up or down, permitting pressure to be applied where stretcher is located.

Screws are made of $1\frac{1}{2}$ " cold rolled steel and have a fast thread.

Dimensions are: Front to back, 25"; across in front, 23"; across in back, $19\frac{1}{2}$ ". If needed, we can make clamp a trifle wider at front and back.

Indestructible, all steel and iron. Will last a lifetime. Weight about 500 lbs.

Without stretcher attachment, No. 140.

With stretcher attachment, No. 141.

"HANDY" Chair Clamp without Side Clamping Attachments

This Chair Clamp fills the want where side clamping attachment, as shown on page 26 is not needed.

Table adjustable forward and backward and to different heights and angles by means of $\frac{3}{4}$ " screws at each corner. It has a planed surface and skeleton design, so glue and dirt cannot accumulate. All stops and pressure plates are planed.

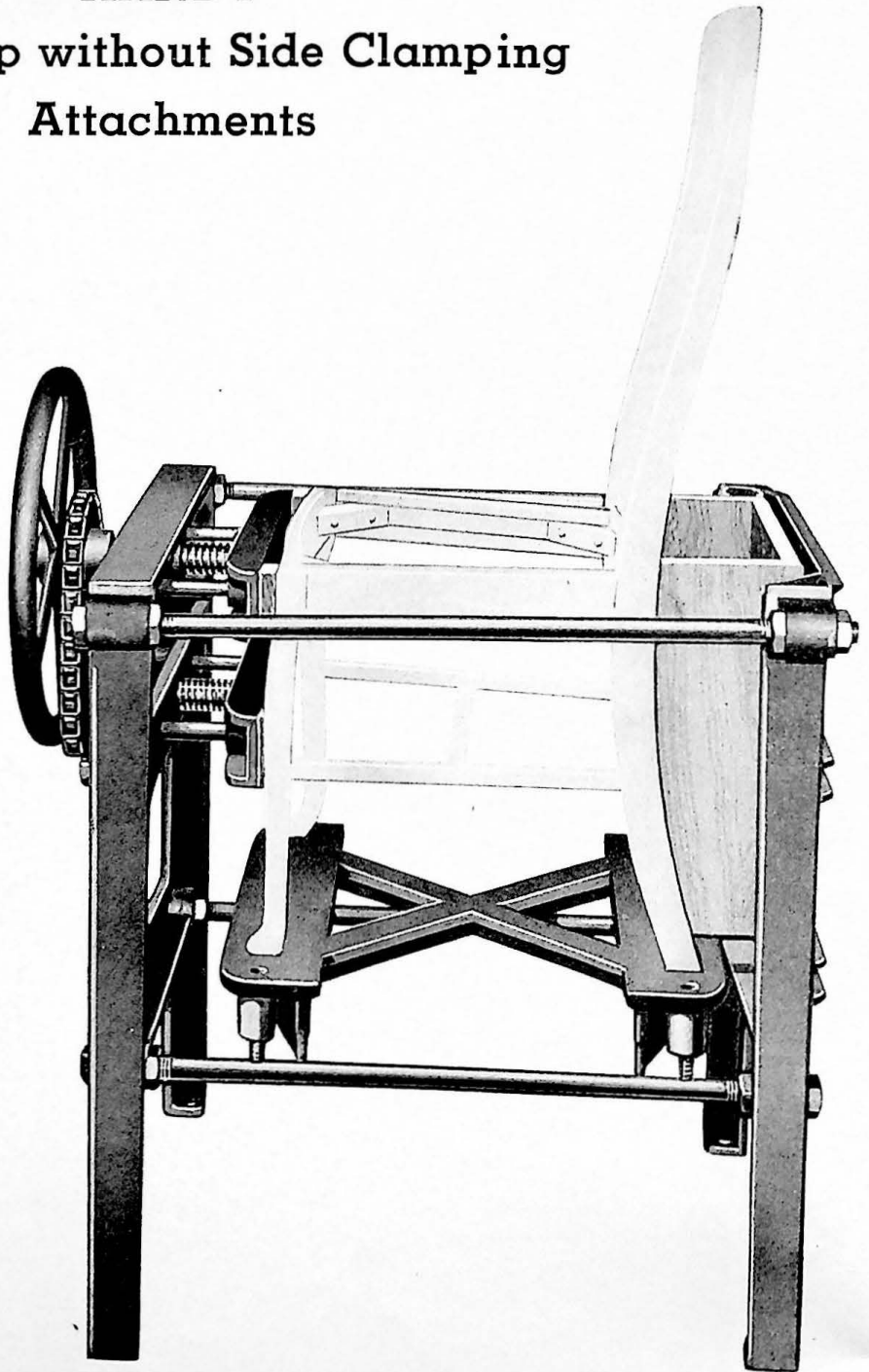
Stretcher attachment can be adjusted to give any desired pressure and is adjustable up or down, permitting pressure to be applied where stretcher is located.

Screws are made of $1\frac{1}{2}$ " cold-rolled steel and have a fast thread.

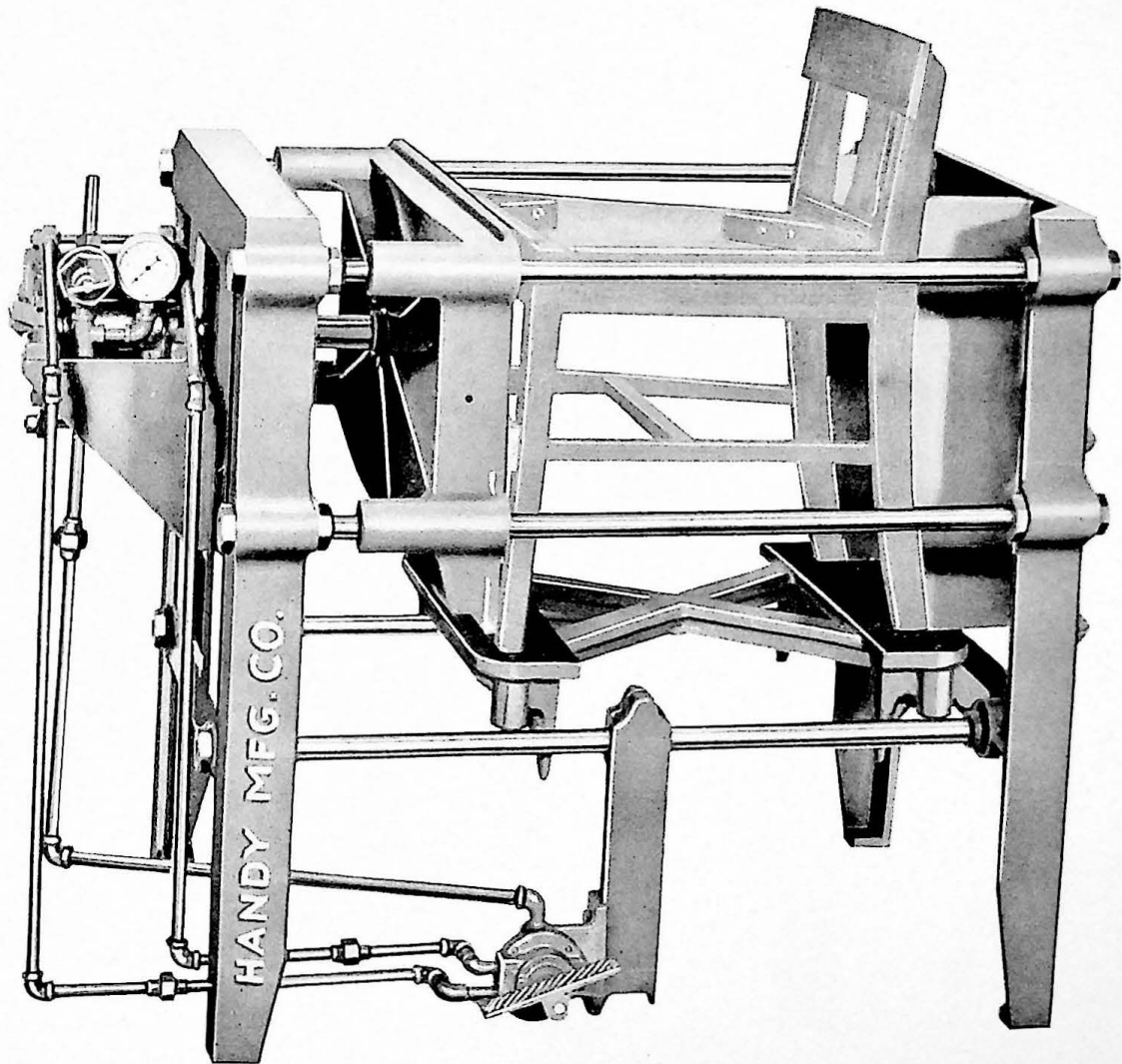
Dimensions are: Front to back, $25\frac{1}{2}$ "; across in front, $25\frac{1}{2}$ "; across in back, 24". Weight of machine is 400 lbs.

Without stretcher attachment, No. 150.

With stretcher attachment, as shown in cut. No. 151.



"HANDY" Air Powered Chair Clamp No. 158

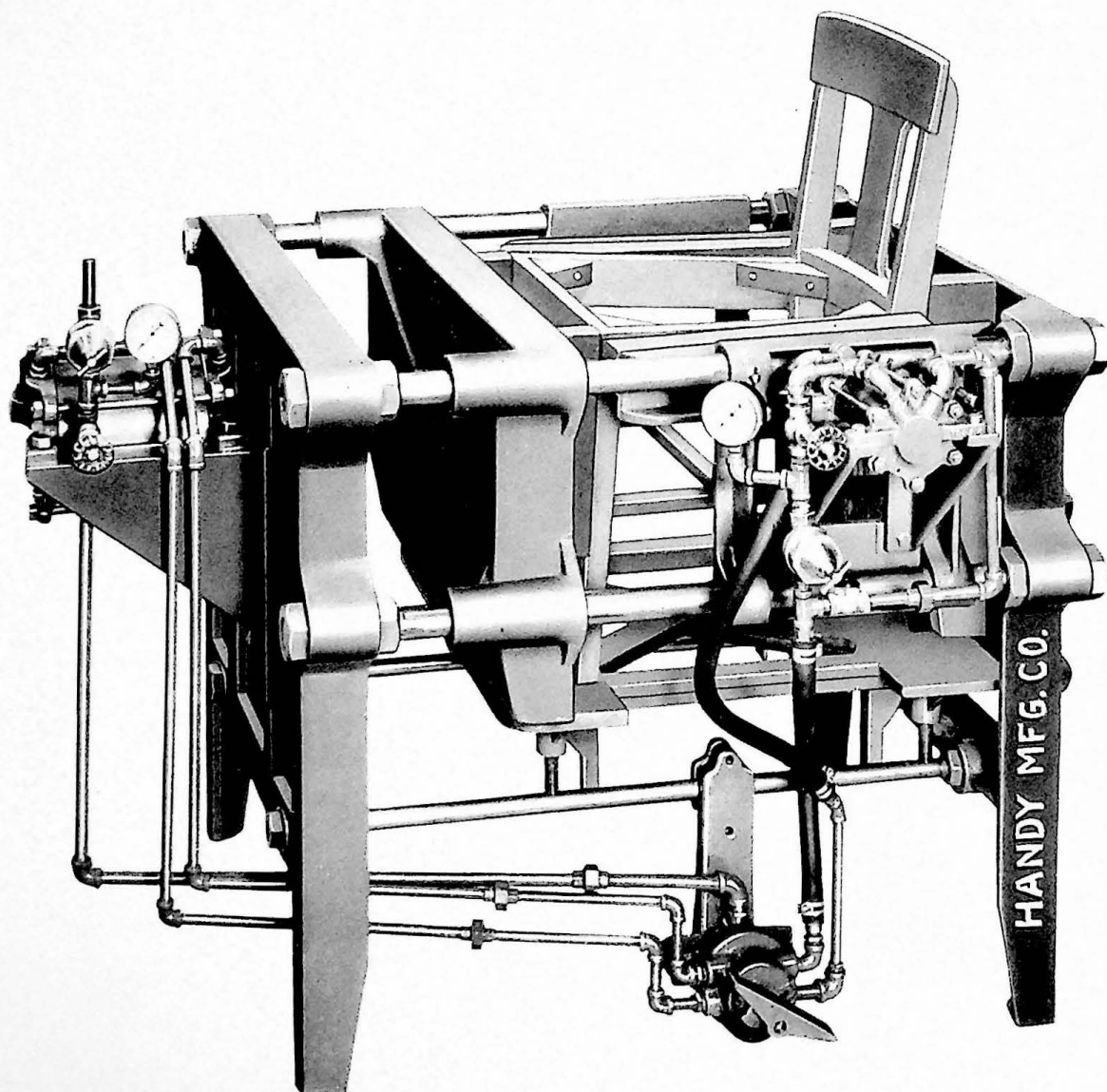


This air powered Chair Clamp is a real production machine and is built to stand heavy usage.

Air valve being operated by foot, gives operator the use of both hands for hold or guiding the work.

It is equipped with oversize 4" stroke air cylinder, so as to give sufficient pressure on all types of chairs. If longer stroke is desired please specify. To regulate air pressure to suit, we have added a reducing valve with air gauge which will permit operator to use and apply any amount of pressure desired from the full capacity of 80 to 100 lbs. down to amount desired. We also equip clamp with a speed regulating valve, which will enable the operator to adjust the speed to suit the work that is being clamped. Standard size will clamp chairs up to 25 1/2" in width and 25 1/2" in depth. Weight 750 lbs. Machine No. 158.

"HANDY" Air Powered Two-way Chair Clamp No. 159



This is the fastest and most accurate large production Chair Clamp made.

We have users who claim an output of from 5 to 6 chairs per minute with three men servicing.

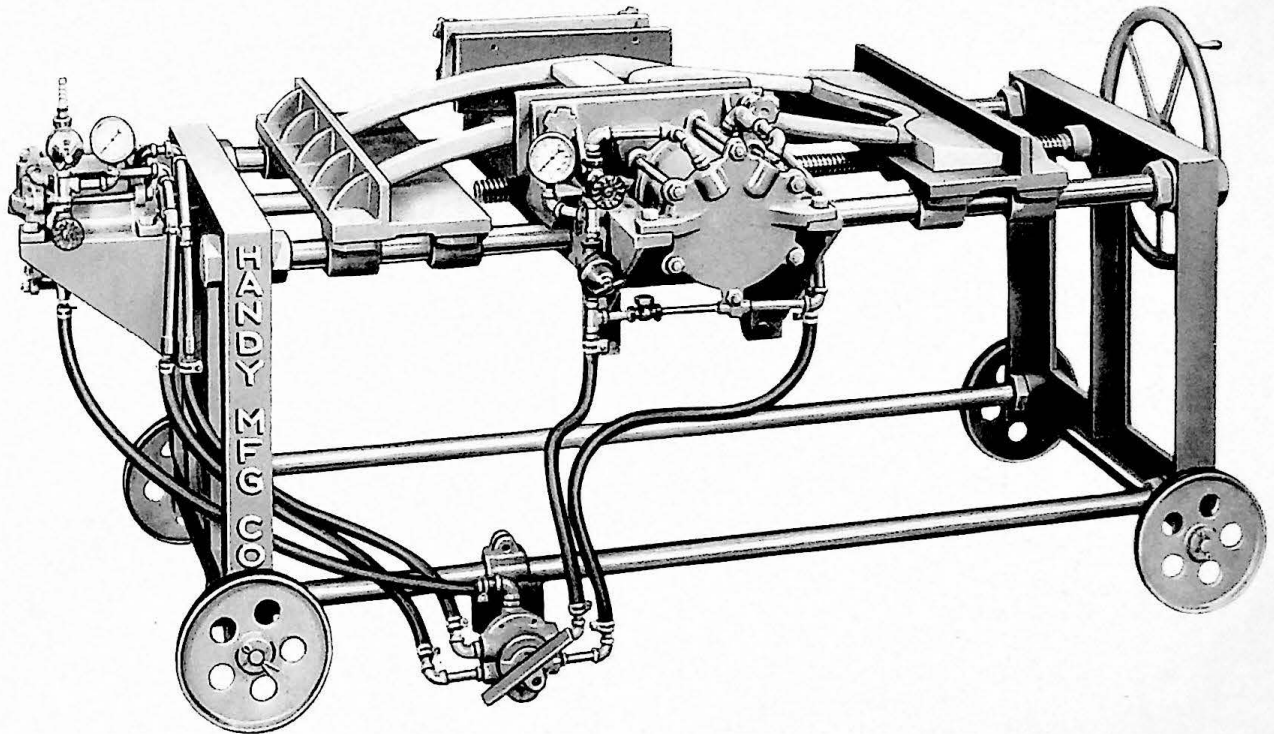
It will absolutely clamp and square all chairs within its capacity, which is 25" in width and 25½", front to back. Every chair of each lot clamped will be alike, thus avoiding loss of time in fitting the seats.

The operation of Clamp is made very easy by the use of a duplex foot valve, which when tripped, first permits air pressure to the side cylinder and immediately following, to the front end cylinder. Pressure can be adjusted to suit for either cylinder by means of air reducing valves and speed of pistons can be regulated also by the setting of the special valves added for that purpose.

Leak proof cylinders with power to spare are used, the front end one having a 4" stroke and the side one a 2" stroke.

Weight 1100 lbs. Machine No. 159.

"HANDY" Air Powered Chair Back Clamp No. 230



Speed up your production and reduce your costs by installing this latest type Chair Back Clamp.

Air power for clamping is of special advantage on work that has to be clamped two ways, because by using special duplex foot valve, the air is permitted to first apply pressure in one direction and immediately following, without any further action by the operator, applies pressure in the opposite direction.

The order of directions can be changed by merely reversing the connections.

Pressure can be adjusted to suit for each direction and speed can be adjusted also by means of air reducing and speed reducing valves.

Leak proof cylinders with power to spare capacity are used, one having a stroke of 4" and the other one of 2".

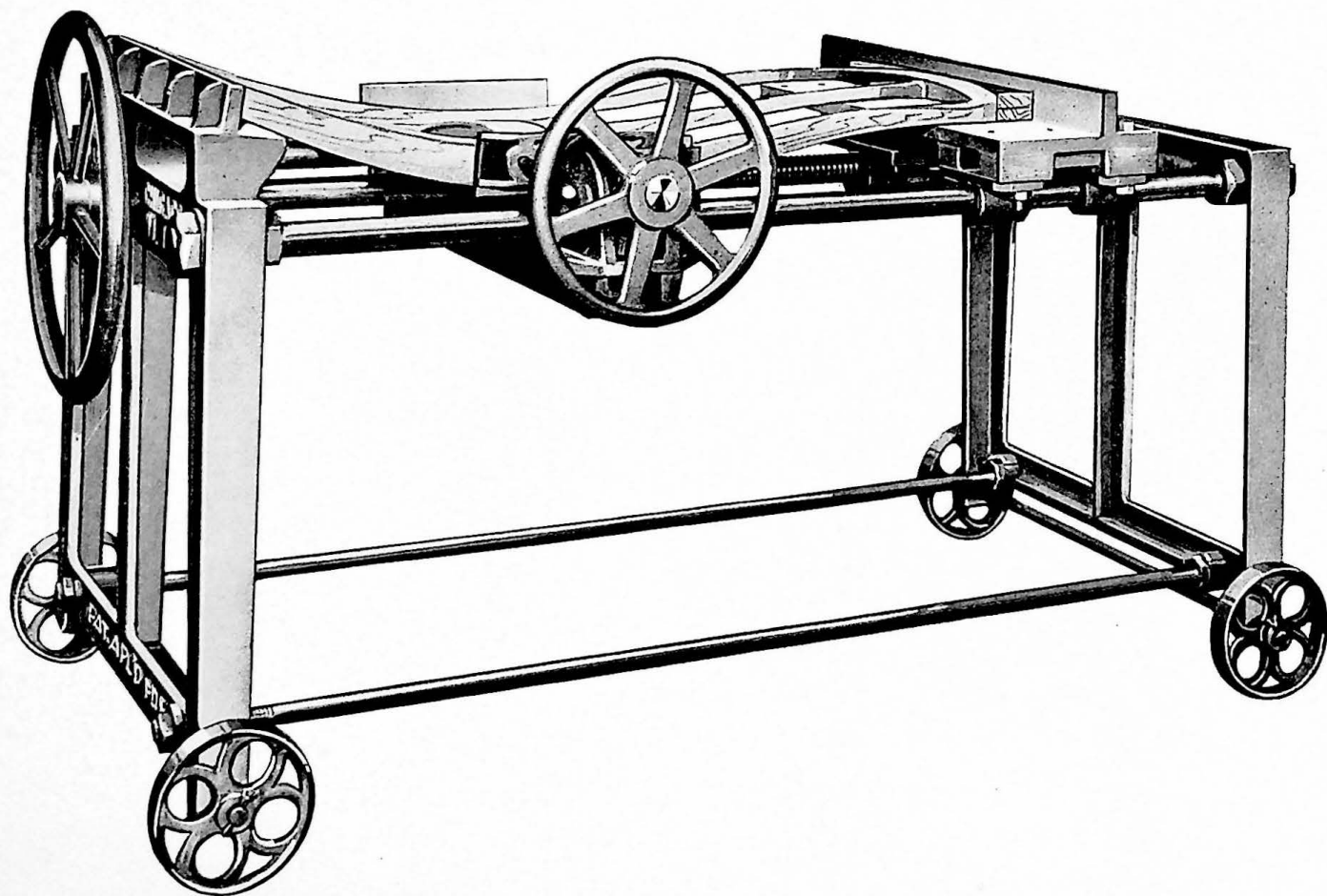
Standard size takes up to 48" in length and crossway opening is 24" with closing down to 14½".

We can furnish other size specifications on request.

"Handy" Clamps have always been built to give good service longer than anyone would reasonably expect and this latest addition, we assure you is no exception.

Weight 1250 lbs. Machine No. 230.

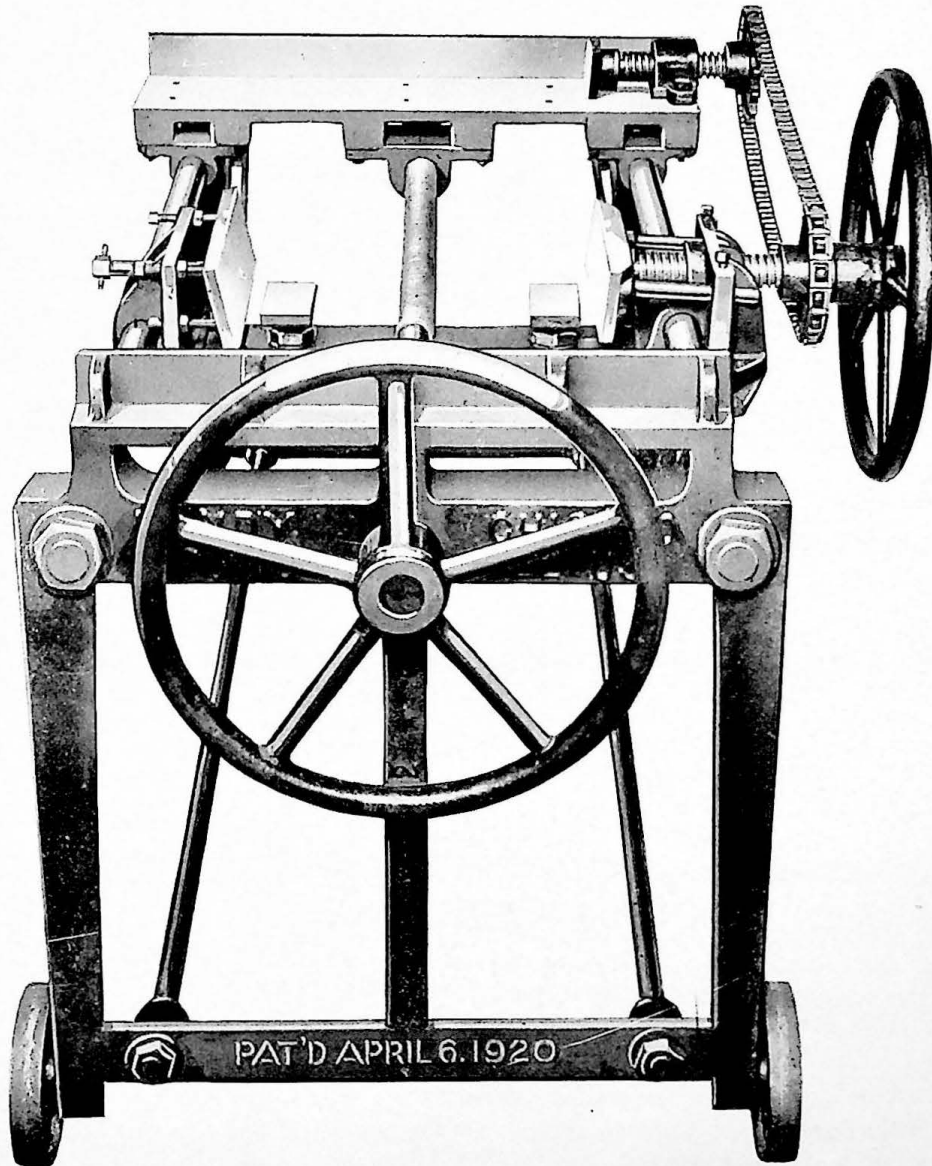
"HANDY" Chair Back Clamp No. 210



This machine will clamp up any Chair Back within the following measurements. For width, will open 22" and will close to 14"; for length, will open to 48" and close to 25", but can be made to open and close more in the length. Can also be furnished to take 28" in width if desired. Bottom stops are made to raise and lower, depending on sweep of chair. Side clamping plates adjust to any angle up or down and sideways so as to conform to stock.

Lengthwise clamping plate moves on long screws, thus doing away with stops, as front plate is stationary. Both length and crossways screws are $1\frac{1}{2}$ " in diameter and have Quick-Acting Thread. All clamping plates and stops have drilled holes for bolting on stops or shapes. Weight about 600 lbs. Machine No. 210.

"HANDY" Chair Back Clamp No. 220

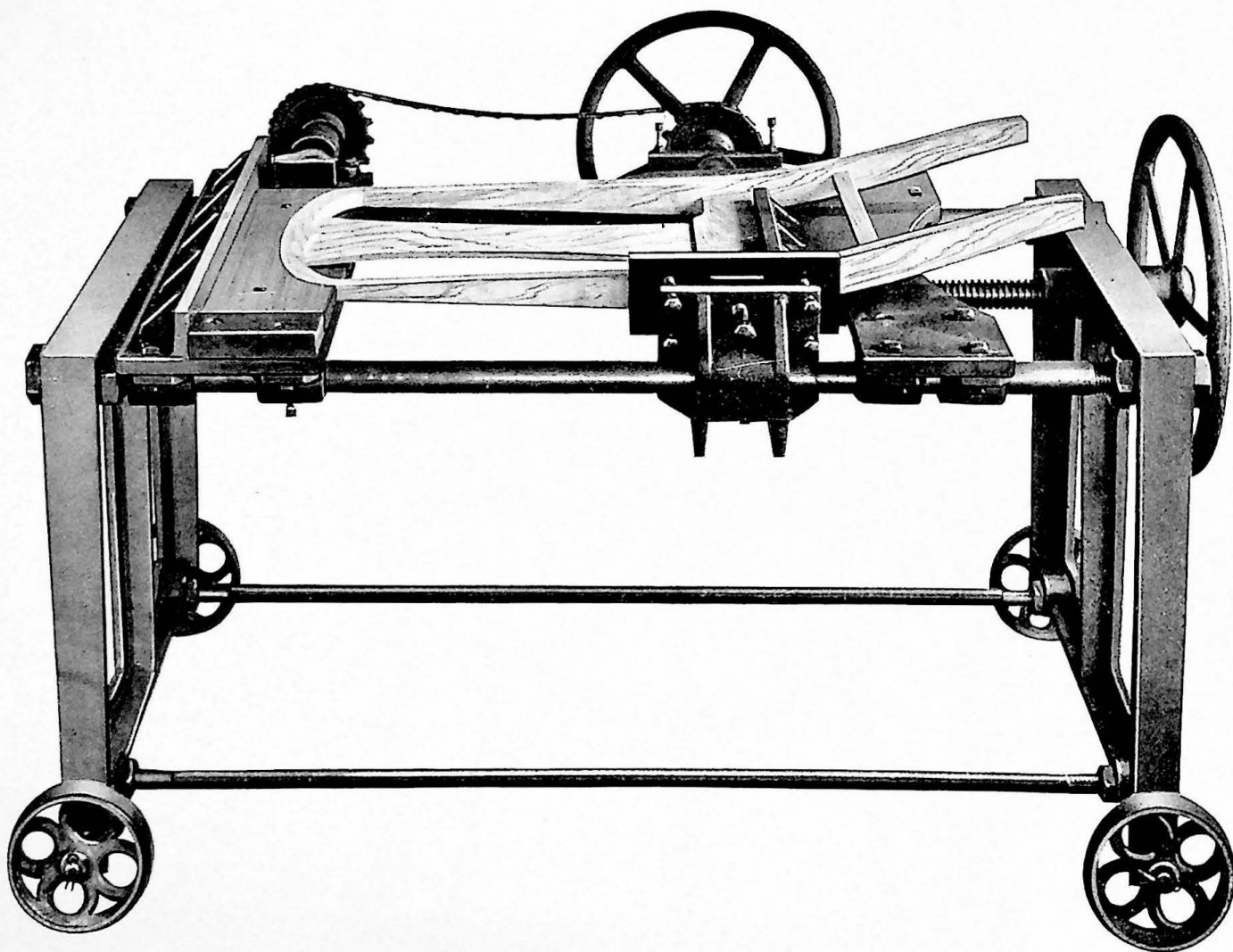


This machine is the same as No. 210 except that it has an additional clamping attachment for clamping crossways at top of Chair Back.

This attachment can be removed when not needed.

Weight about 650 lbs. Machine No. 220.

"HANDY" Chair Back Clamp No. 225



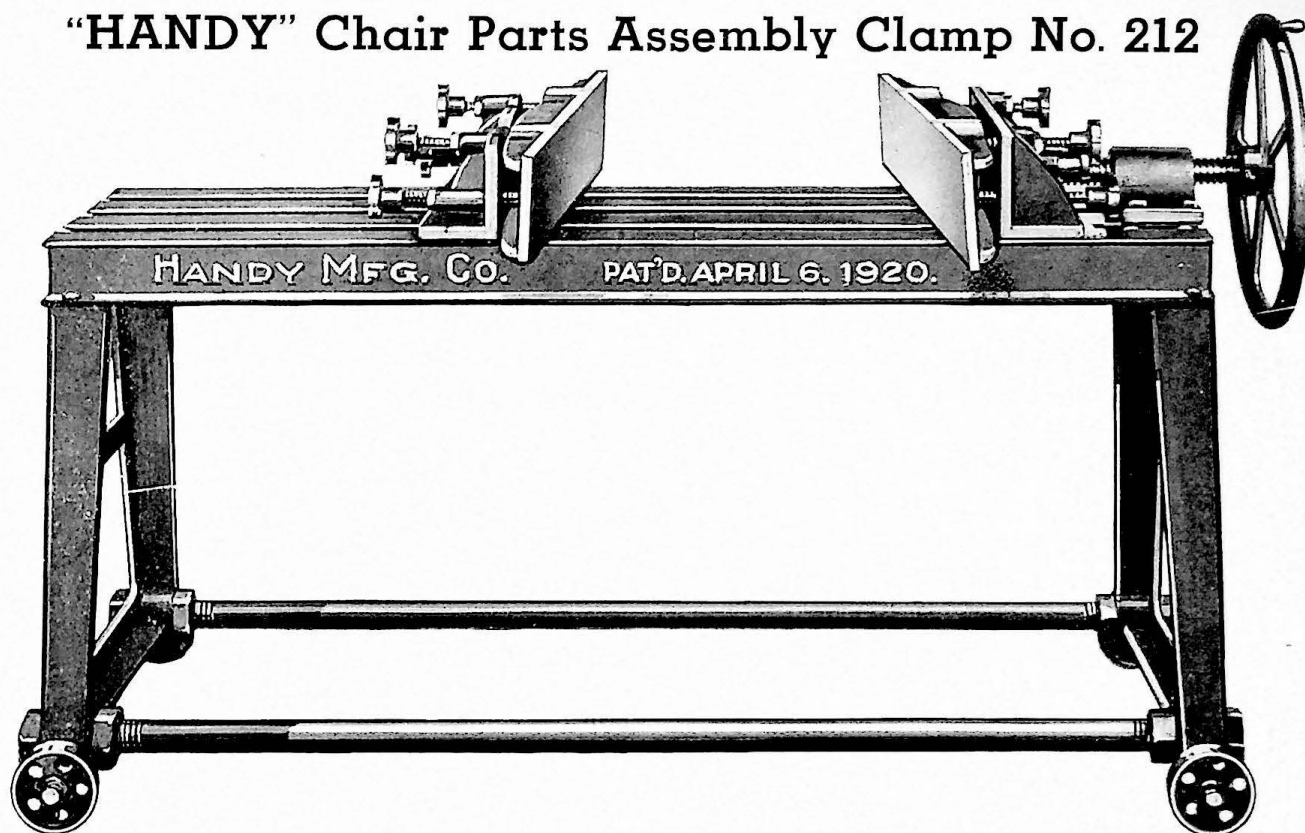
This machine has the same features as No. 220 on preceding page, except that instead of applying pressure against the bottom of legs pressure is applied against the bottom rail.

This has been found desirable by a great many manufacturers and was made to meet their requirements. Standard size is 22" in width, closing to 14" but can also be furnished to take 28" wide backs if desired.

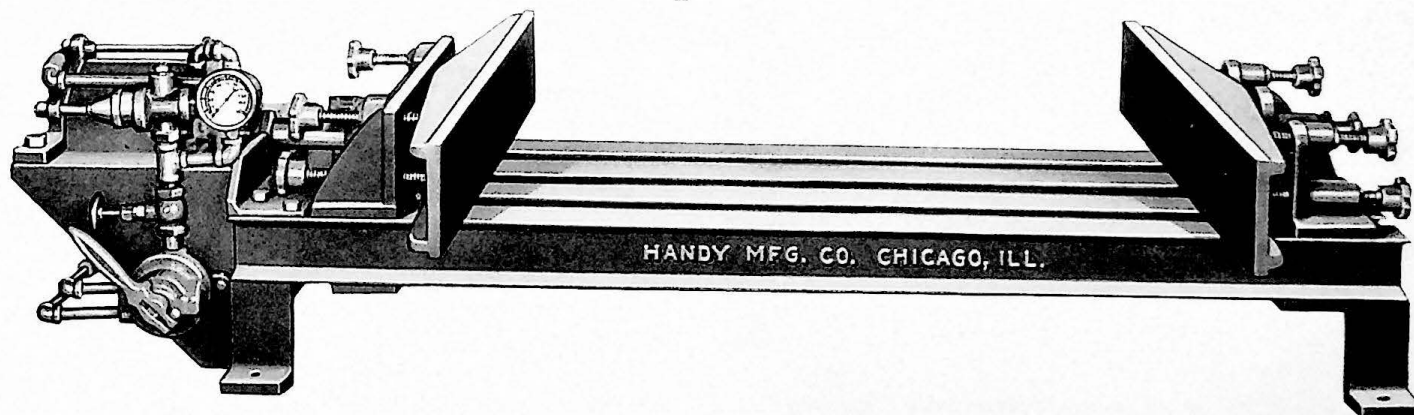
Weight about 650 lbs.

Machine No. 225.

"HANDY" Chair Parts Assembly Clamp No. 212



"HANDY" Air Operated Chair Parts Assembly Clamp No. 217



For clamping "front" and "stretcher" section on chairs or similar work.

The pressure plates which are adjustable to flare of posts, can be set at almost any angle and tilted forwards or backwards, thus doing away with wood shapes or fillets.

Pressure plates are 26" long and 5" high, but we can furnish plates less than 5" high if desired.

Standard size clamp opens up to 36" between clamp plates, and closes all the way. We can furnish them to open up more or less, if desired.

Planed surface on bed is 14" wide. Pressure screw is 1½" in diameter and quick acting. Wheel is 16" in diameter.

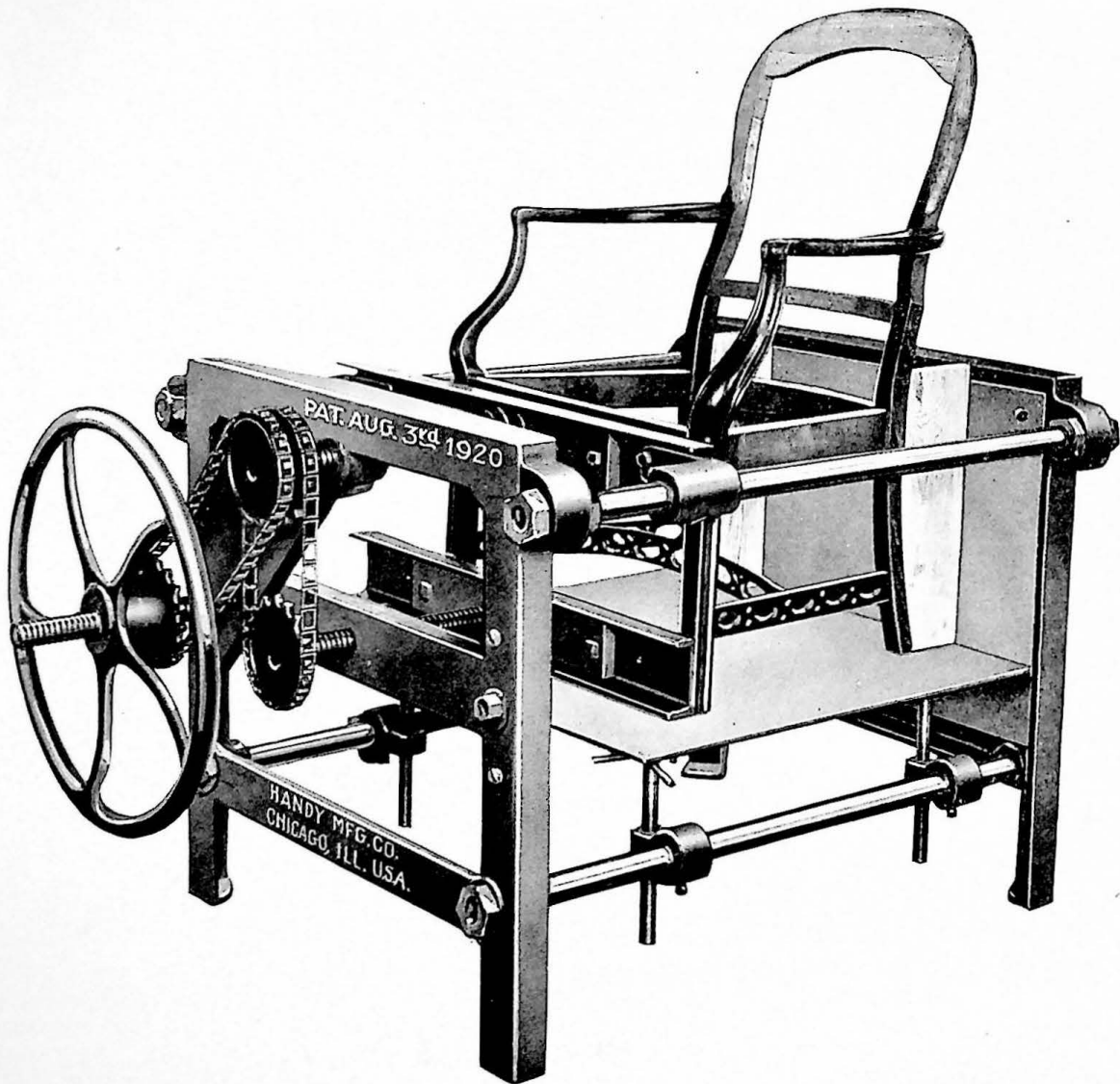
Machine No. 212. Mounted on portable stand. Weight about 550 lbs.

Machine No. 215. Bench type without stand. Weight about 400 lbs.

Machine No. 216. Air operated with stand. Weight about 650 lbs.

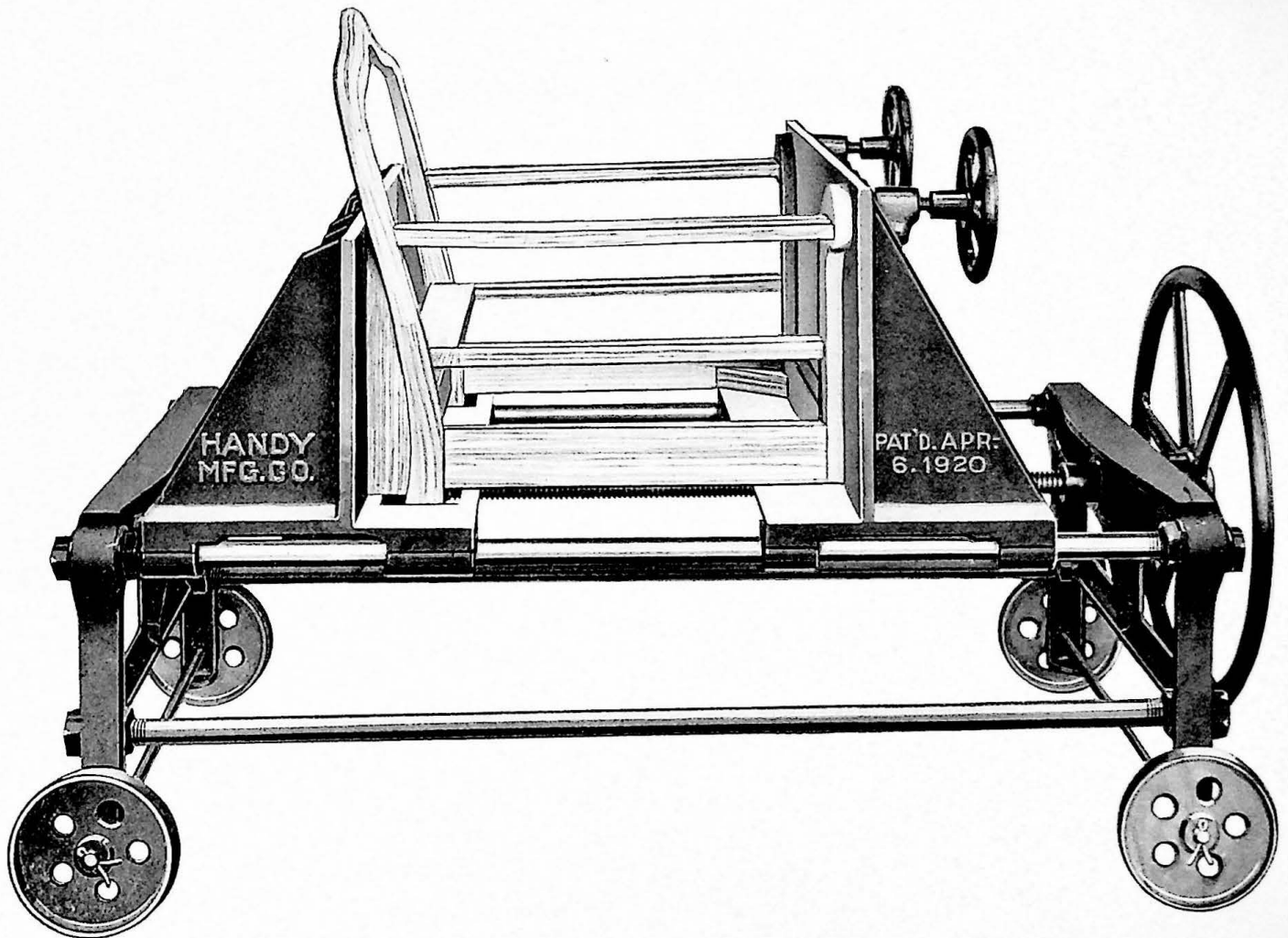
Machine No. 217. Air operated bench type. Weight about 500 lbs.

"HANDY" Chair Clamp No. 156



This large size Chair Clamp is made to meet a demand from manufacturers of chairs, such as can not be handled in our smaller sizes shown on pages 26 to 29 inclusive. It will clamp chairs up to $32\frac{1}{2}'' \times 32\frac{1}{2}''$ and is equipped with attachment for clamping the stretchers in one operation. Table is adjustable up and down to allow for pressure at proper place depending on the height of chair. Weight about 950 lbs. Machine No. 156.

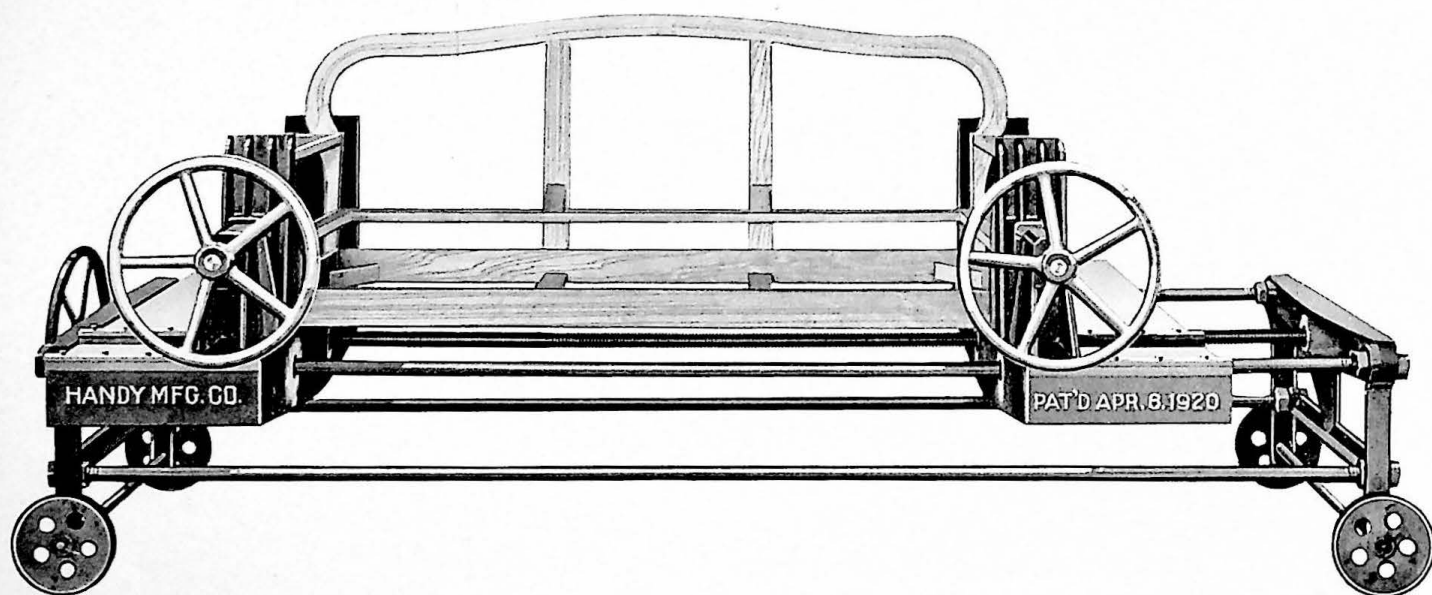
"HANDY" Clamp No. 54



This clamp is made principally for clamping overstuffed chair frames or any other style chairs where back legs are in one unit with chair back, as provision is made for legs to project below clamp surface and height of clamp jaws is made accordingly. Stationary back plate is $15\frac{1}{2}$ " high and front plate is $18\frac{1}{2}$ " high. Both plates are 38" long and open up to 34" standard, but can be made to open up more if specified. Pressure is applied by 28" diameter wheel which operates the $1\frac{1}{2}$ " cold rolled screw running the entire length of clamp. The two top pressure fixtures are for emergency only, in case of open joints due to shrinkage, etc. Unless otherwise specified these are mounted to give center pressure 29" apart. The screw on these is 1" and wheel 9" diameter. Holes in stationary back plate to allow for legs to drop through are made to accommodate chair, measuring from 20" to 24" between back legs (inside measurements) unless otherwise specified. Height of clamp surface from floor is 24", which along with the open side feature of this clamp makes it easy for operator to block and nail.

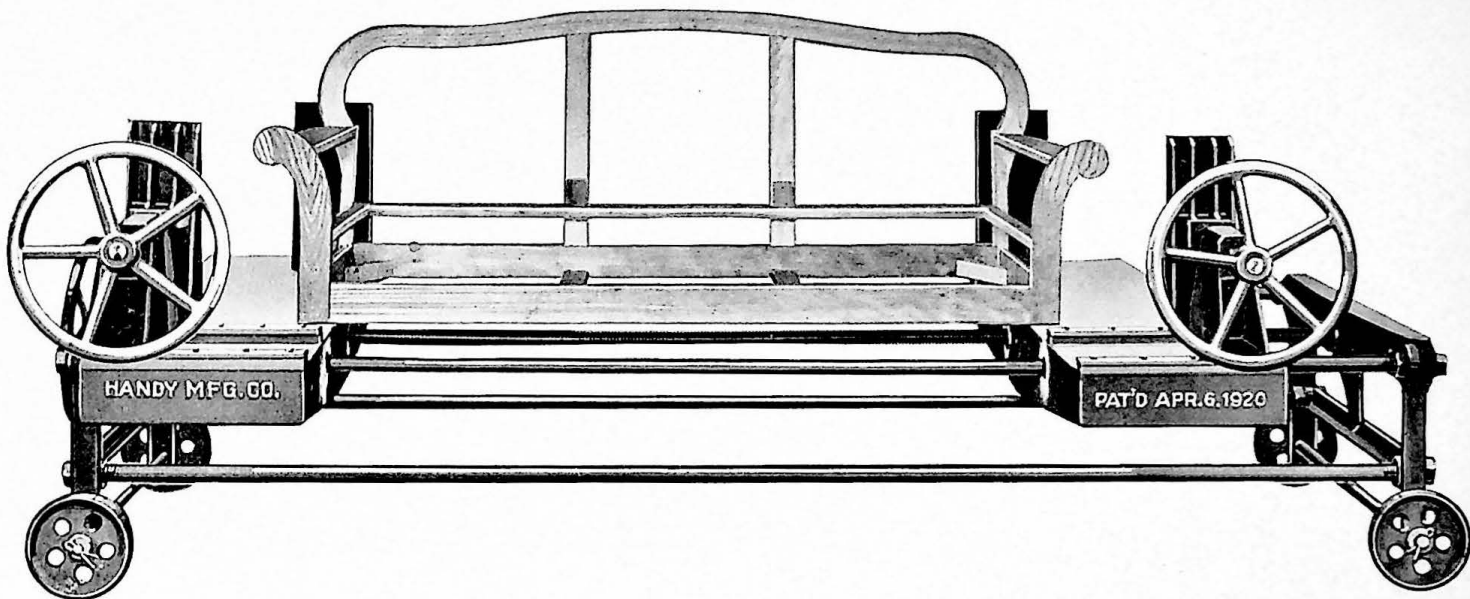
Weight 1300 lbs. Machine No. 54.

"HANDY" Sofa or Davenport and Chair Clamp No. 62



Clamp illustrated on this and opposite page was designed to fill a steadily increased demand for improved method of clamping overstuffed sofa or Davenport frames in various lengths. It is adjustable to any length frame up to 86" by simply revolving the end wheel which operates the 1½" diameter cold rolled screw, running the entire length of clamp and brings the two tables with clamp fixtures close together or all the way apart. The two tables have large holes cut through to allow for back legs, dropping below surface. Surface of table is 24" from floor, 18" wide and long enough to take sofa 34" deep. Back stop plates mounted at rear end of tables are 15½" high and 8" wide. Front pressure plates are 18" high and 6" wide and pressure is applied with 17" diameter wheels. As stated, the wheel at end of clamp is for length adjustment only. The pressure plate fixtures are mounted so as to slide out of the way to enable operator to remove sofa and place the next one without undue exertion, so all the work can be done from the wide open front, including the nailing and blocking.

"HANDY" Sofa or Davenport and Chair Clamp No. 62



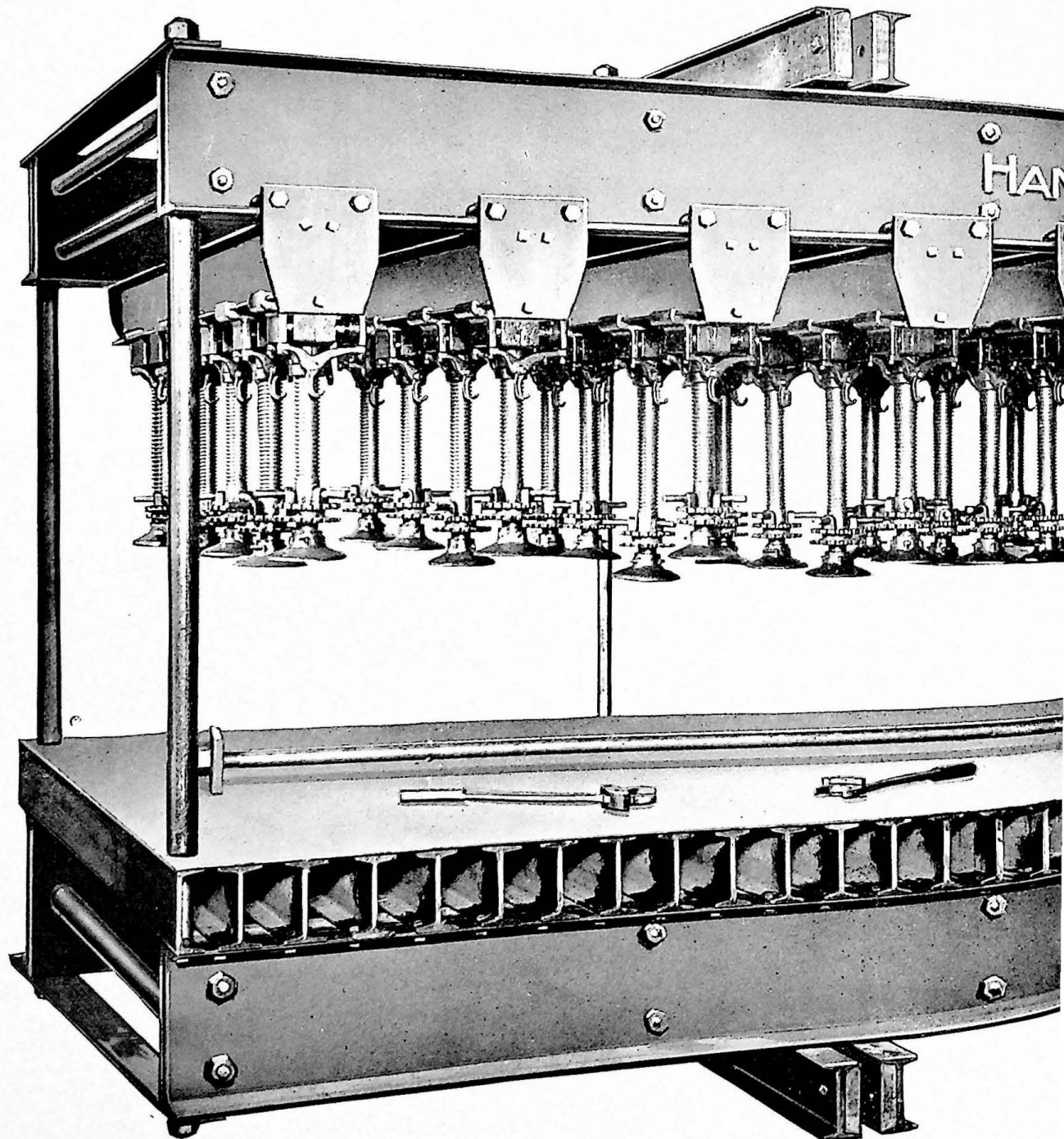
Description continued from opposite page.

On account of the 18" width of tables, the entire surface being planed, extra fixtures can easily be mounted to enable clamp to accommodate special shapes of frames. Clamp can also be furnished to take larger sofas if desired, and will clamp chairs as well, as the two clamp tables can be moved all the way together. Therefore, this clamp will furnish you up to date clamping equipment for your whole line of chairs and sofas. Clamp No. 63 with four clamp tables will accommodate two operators clamping chairs independently of each other.

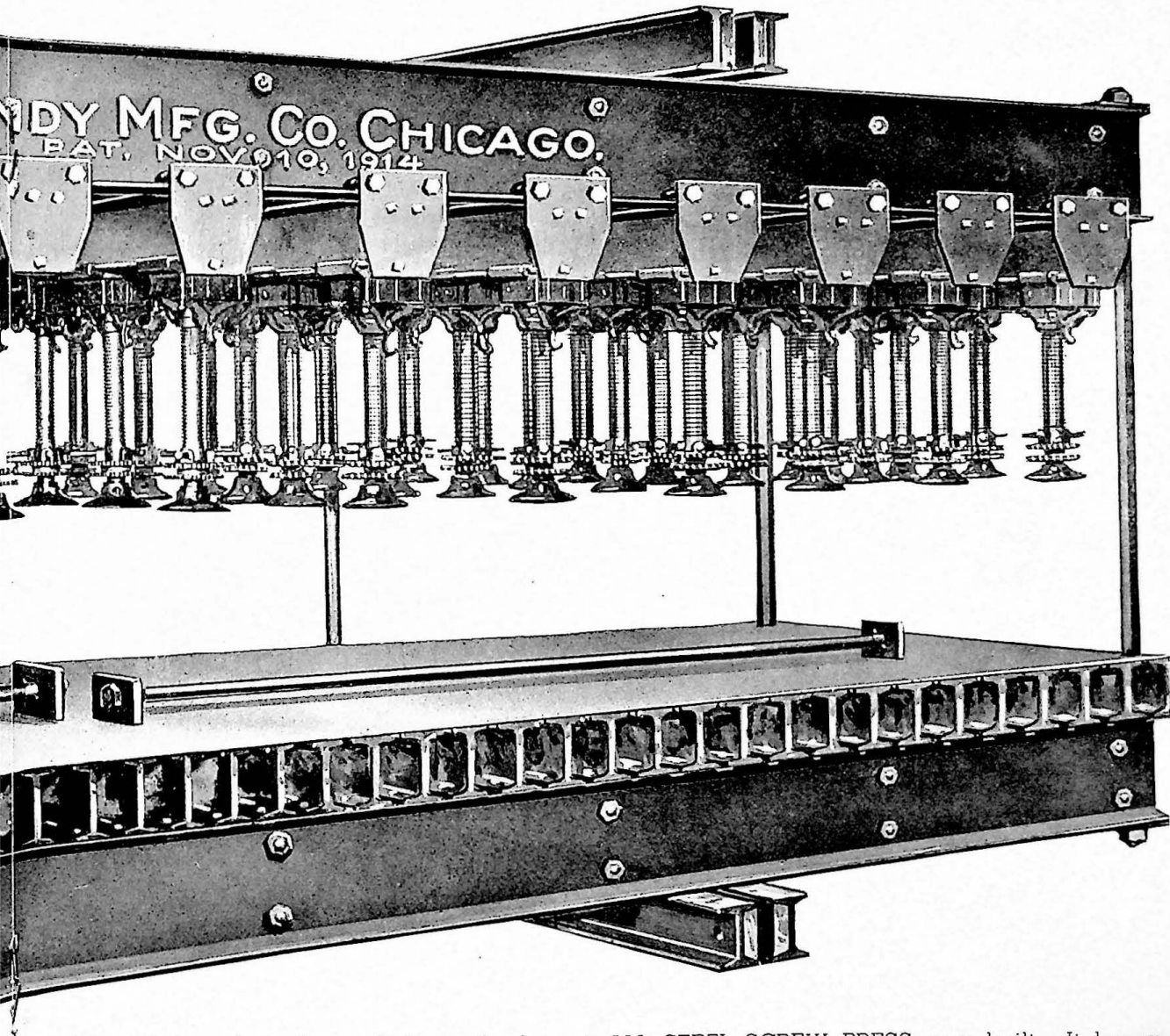
Weight 1500 lbs. Machine No. 62, as illustrated.

Weight 2900 lbs. Machine No. 63, with four clamp tables instead of two.

"HANDY" All Steel Veneer Press



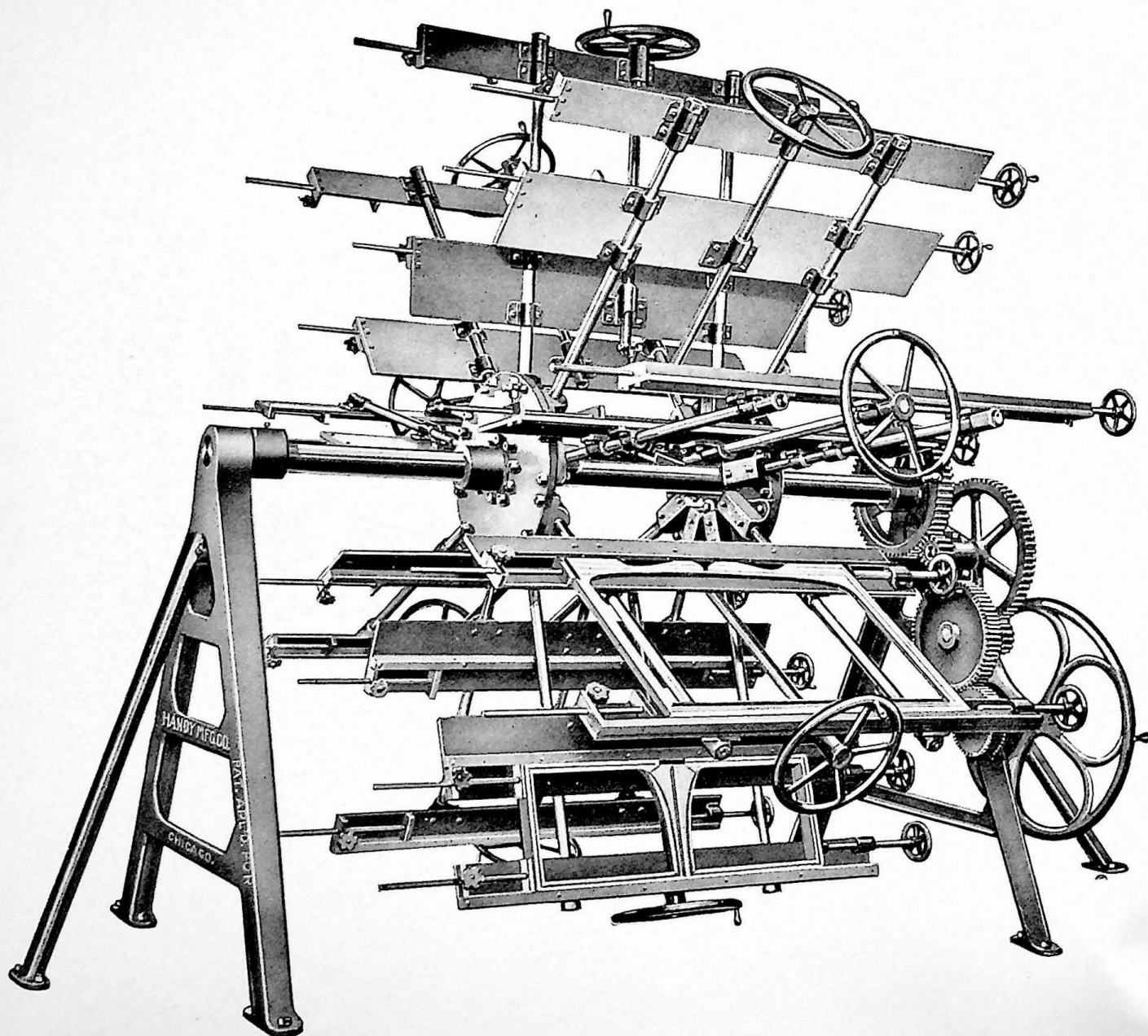
ss with Quick-Acting Bearings



Press shown above is, we believe, the largest ALL STEEL SCREW PRESS ever built. It has a clamping surface of 16 feet in length and 8 feet in width. It is being used by a firm manufacturing High Class Interior Finish and Fixtures.

We can build any size press, with either solid or patented quick-acting bearings. Weight of above press about 23,000 pounds. For details of construction see page 58. Consult page 60 for list of standard sizes.

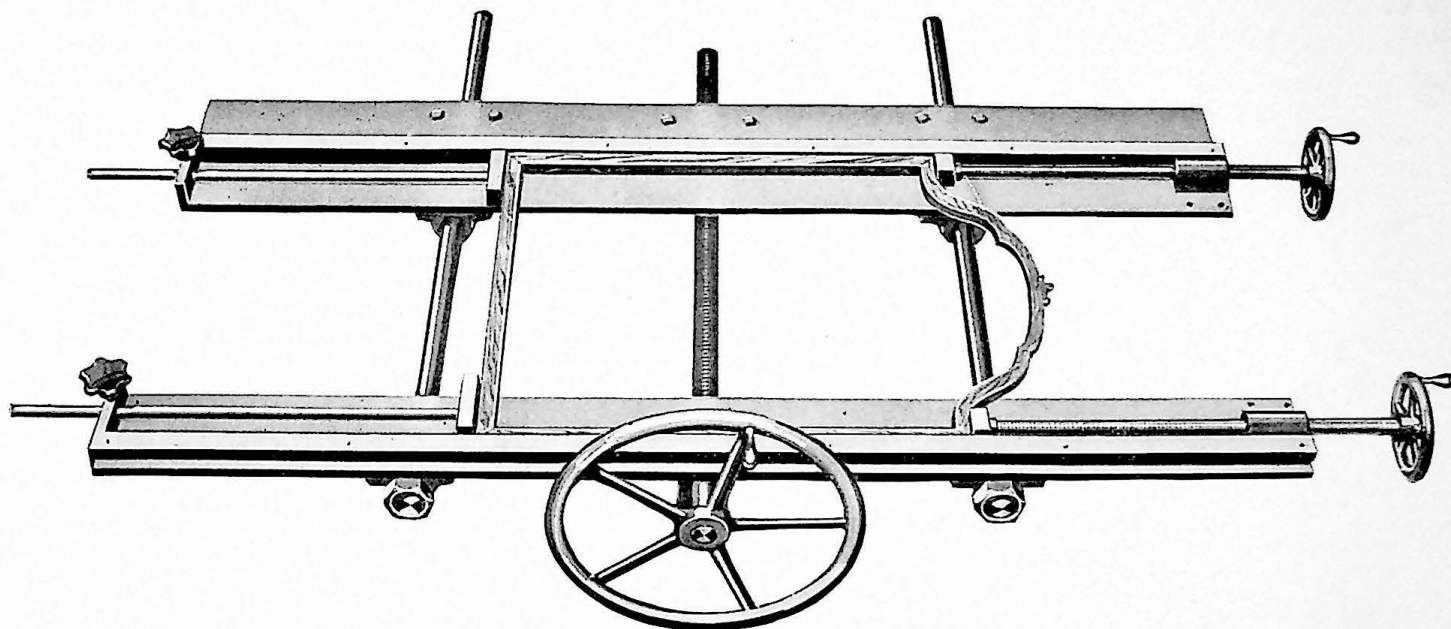
"HANDY" Revolving Frame Clamp



See Pages 41 and 42

"HANDY" Revolving Frame Clamp

CLOSE UP VIEW OF ONE SECTION



The machine that is illustrated on page 40, with close up view above, is put on the market to meet the demand of a steadily growing number of manufacturers for a Frame Clamp that will hold enough frames to allow glue to set before being taken out.

As will be seen on page 40, machine has nine clamp sections and thus will hold nine frames, except on small frames, when two or three may be clamped at once in each section.

Machine shown has Clamp sections that will clamp frames 60" long and will open up 36" for width.

The jaws are $1\frac{1}{4}$ " high and will close to 8" or less if specified. Closing to 8" gives 4" table on each jaw for work to rest on. We can furnish higher jaws if desired.

The jaw plates are made from cold-rolled steel. The one in front at wheel is stationary, the other one is moved the full length back and forth with a $1\frac{1}{2}$ " cold-rolled steel screw, thus doing away with stops and allowing for quick adjustment. The wheel for tightening is 17" in diameter. The sliding rods are $1\frac{1}{2}$ " cold-rolled ground steel. The crossway pressure screws shown at the right end of cut above are 1" with a 6" wheel at end and these fixtures can be fastened close to jaw or moved to outer edge of plate if desired. They are fastened with two thumb-screws from underneath. The stops at opposite end are tightened with a hand wheel screw, so that no wrenches are required for setting at either end.

(Continued on page 42)

"HANDY" Revolving Frame Clamp

(Continued from page 41)

These Clamp sections are shipped complete and assembled as shown on cut and all that is needed in assembling machine is to slide the two rods into corresponding numbered holes in flange on shaft, up to point where rods are marked with a line and then tighten set screws. Main shaft is cold-rolled steel 4" in diameter, and the two flanges are spaced and permanently fastened before shipping.

On account of back gearing no lock stops are required, so operator can bring the clamp sections to any position that he desires. Four and one-half turns on the large hand wheel will revolve machine to the next clamp section. Machine with sections to open up 36" requires 10' 1½" for clamp plates to clear ceiling and 10' 6" for wheel with handle to clear. Machine with sections to open up 32" require 9' 5½" for Clamp plates to clear ceiling and 9' 10" for wheel with handle to clear, and other size openings in proportion.

A machine to take in frames 60" long would require a floor space of 12' lengthwise. Weight of this size to open 36 inches is 6,600 lbs.

No. 128 to take in Frames or Stock up to 36" in width and 60" in length.

No. 129 to take in Frames or Stock up to 36" in width and 54" in length.

No. 130 to take in Frames or Stock up to 36" in width and 48" in length.

No. 131 to take in Frames or Stock up to 36" in width and 42" in length.

No. 132 to take in Frames or Stock up to 36" in width and 36" in length.

No. 133 to take in Frames or Stock up to 36" in width and 30" in length.

No. 134 to take in Frames or Stock up to 32" in width and 60" in length.

No. 135 to take in Frames or Stock up to 32" in width and 54" in length.

No. 136 to take in Frames or Stock up to 32" in width and 48" in length.

No. 137 to take in Frames or Stock up to 32" in width and 42" in length.

No. 138 to take in Frames or Stock up to 32" in width and 36" in length.

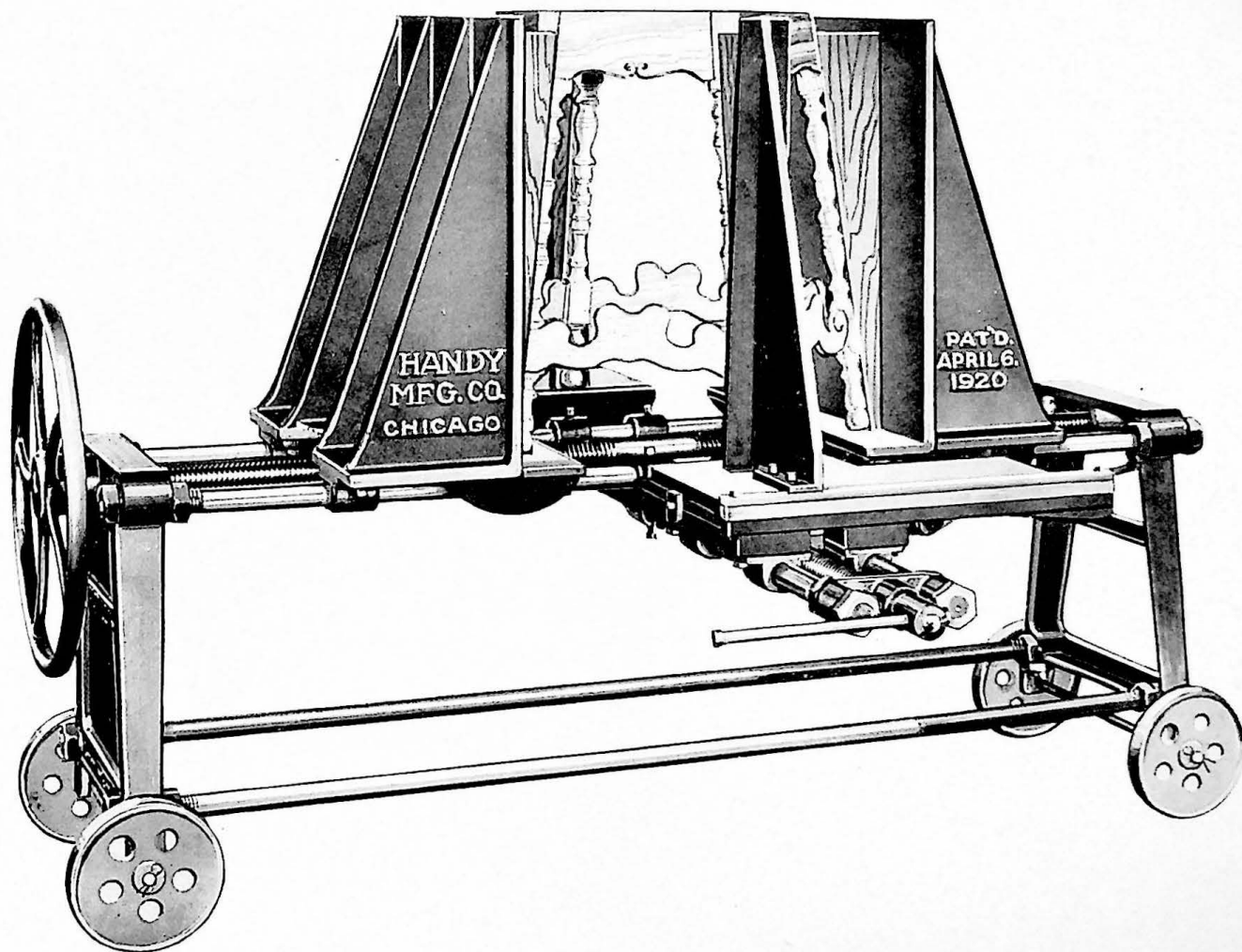
No. 139 to take in Frames or Stock up to 32" in width and 30" in length.

This machine has also proven a great labor saver for radio cabinet manufacturers.

We can furnish single units of this machine as shown on page 41. Write for price.

We will also quote on machines with longer clamp plates than listed above and with higher jaws.

"HANDY" Two Way Table Clamp No. 35



Clamp shown above is suited for clamping hexagon, octagon or any other type of table that requires pressure from more than one direction. It is also ideal for clamping cases needing two-way pressure.

We can furnish this clamp with almost any size of clamp plates, but the following sizes are standard.

Large clamp plates 25½" wide, 28" high.

Crossway clamp plates 4½" wide, 28" high.

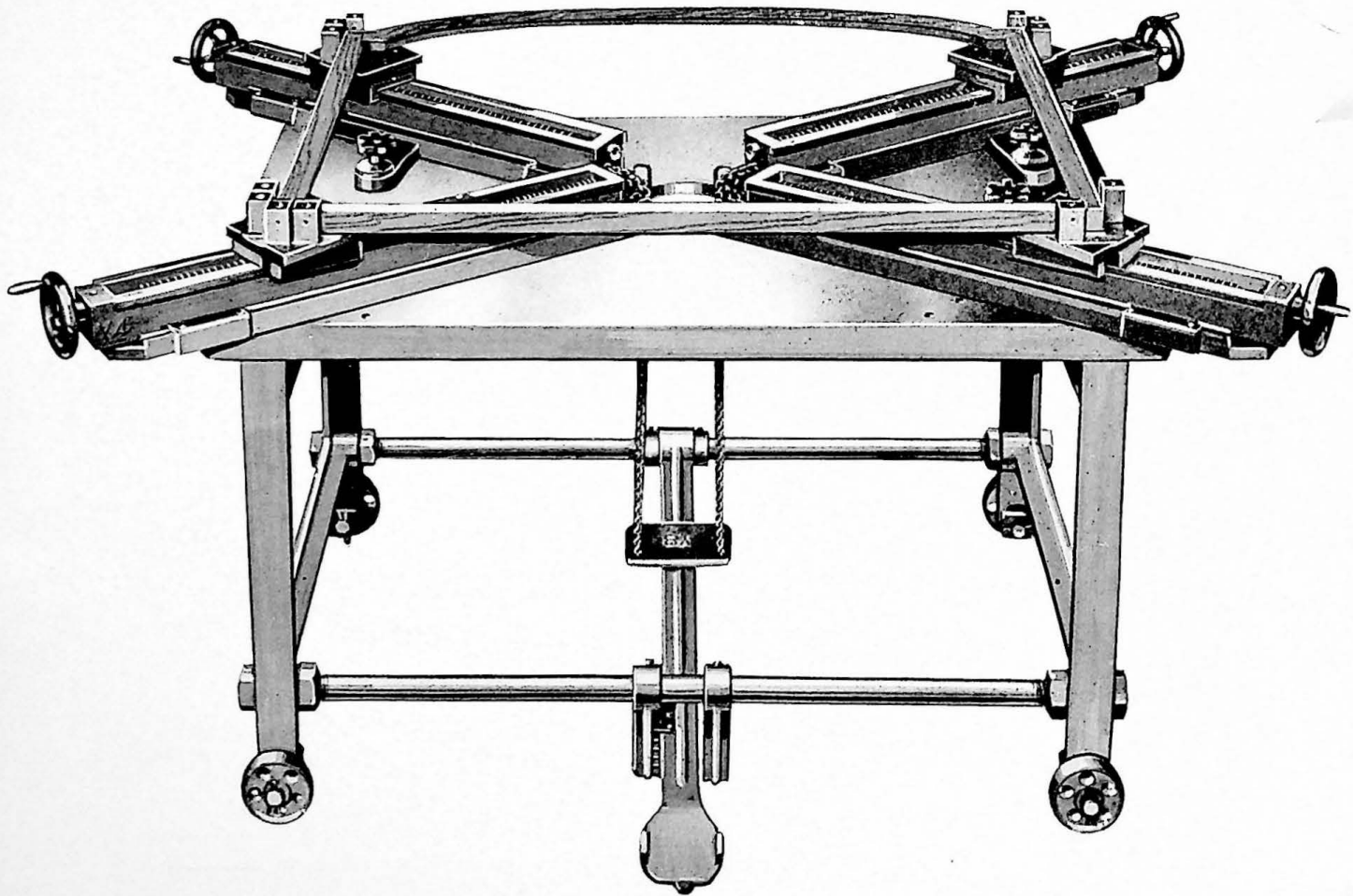
Standard opening up between the plates is 36", but can be changed if specified.

Both large and small plates operate with right and left thread, to insure quick operation and equal pressure from all sides.

Weight about 1,500 lbs. Machine No. 35, as illustrated.

Machine No. 36, with air pressure.

"HANDY" Quick-Acting Frame Clamp No. 160



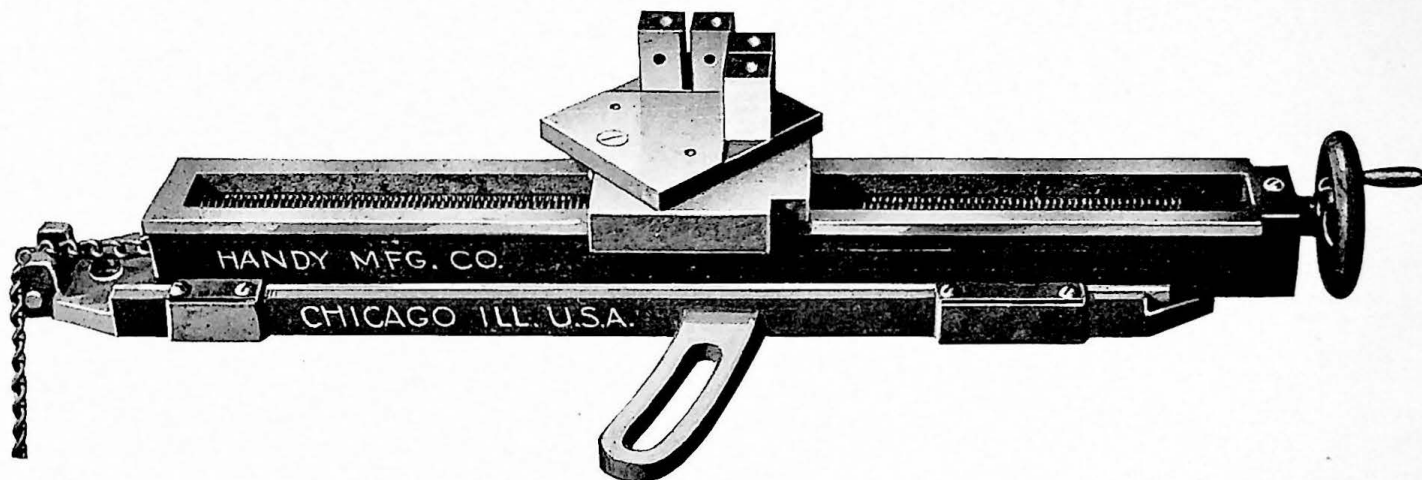
This Clamping Machine was designed to supply the increasing demands for a quick-acting, quick adjusting and accurate clamping device for almost any size and shape of mitered dresser swings, frames, library table rims, etc.

The machine stands 35" from floor to clamping surface. The following sizes are the maximum and minimum capacity of machine, and it will take in any combination of sizes between 13x10, 16x9, 54x40, 50x44, and 60x30.

The Clamping Jaws are made in four parts and are interchangeable. For instance, if it is desired to have tongue come through or to nail corners, take out the two inside stops. (Note lower right-hand corner on above cut.) Or if frames have a narrow clamping surface on top, take out the outside stops. (Note upper corners on above cut.) All jaw stops are made $1\frac{1}{4}$ " high standard, and with all in place have a clamping surface of $2\frac{3}{4}$ "; with two stops taken out, $1\frac{1}{8}$ ". Will furnish higher jaw stops if desired. Jaw plates as shown on Machine No. 190 will also fit this machine.

"HANDY" Quick-Acting Frame Clamp No. 160

CLOSE UP VIEW OF CLAMP FIXTURE



All stops have holes drilled through to allow for fastening of shapes for special work. The jaw stops are mounted in milled grooves on clamping surface-plates so they will always line up when replaced. The clamping-surface plates, which have a swivel movement to conform to different sizes when adjusted and give equal pressure, have two tapped holes for bolting on large corner shapes or special large stops for boxes. All surface and sliding ways on machine are planed or milled. The workmanship and material are the best.

It is operated entirely by foot lever pressure.

DIRECTIONS FOR ADJUSTING

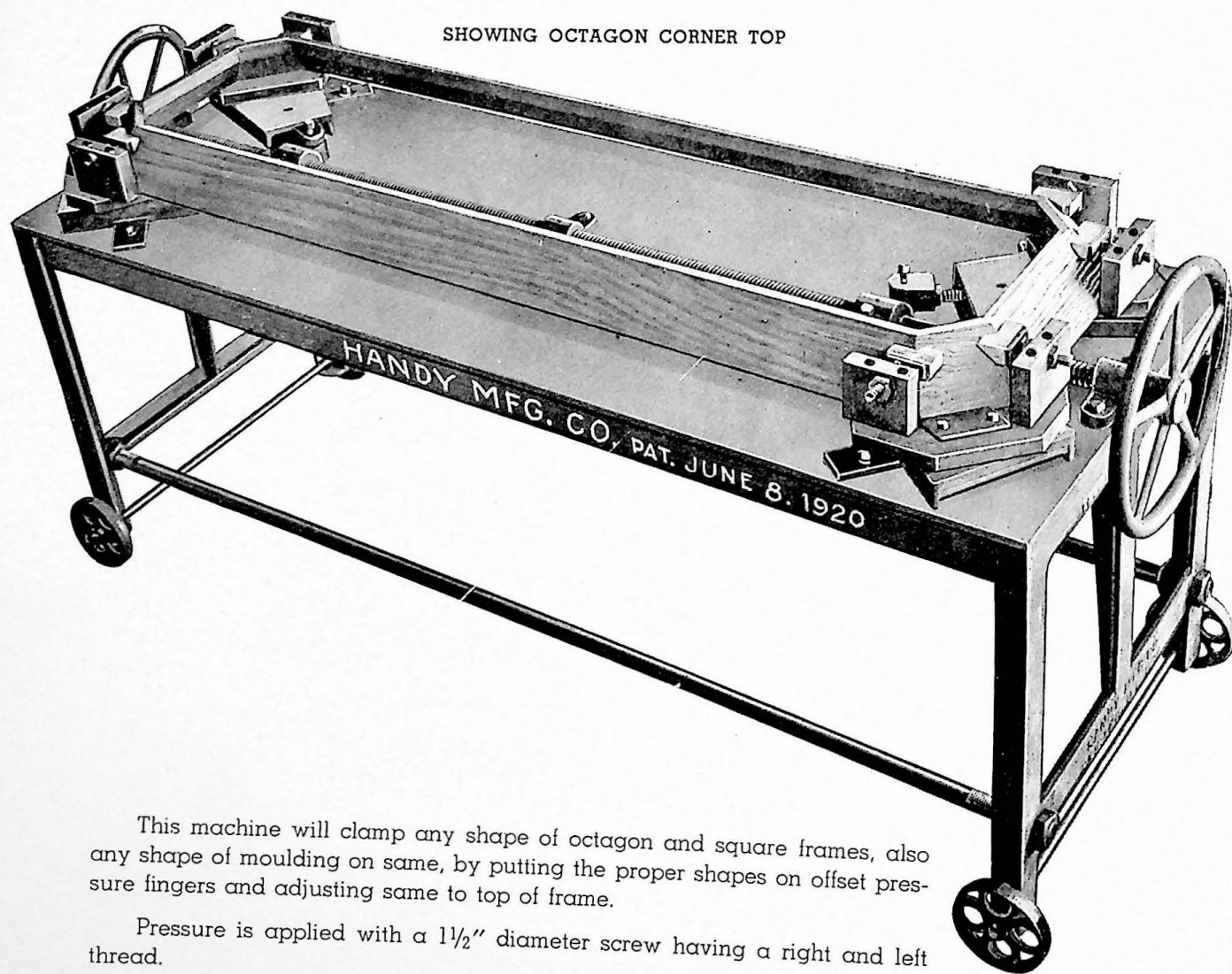
1. Press foot treadle down to stop desired, for sufficient leeway.
2. Place glued-up master frame on machine and adjust same by swinging clamp fixtures to proper positions.
3. Then move jaw-plate fixture backward or forward by turning hand wheel attached to quick-acting screw and at the same time adjust swivel jaw plate so as to give equal pressure on both sides.
4. Place frame as near center as possible, judging by your eye, and adjust each corner separately as above.
5. After making above adjustment, tighten set screws at end of each fixture slightly to prevent screw from turning.
6. Clamp fixtures to table with hand wheel screws as shown in cut.
7. Release foot treadle and adjust the stop to amount of pressure required and all work to be clamped will be uniform.

If above suggestions are followed, one man can change and adjust from one size to another in less than five minutes. This machine can be equipped with additional clamp fixtures, also special jaws.

Weight 1200 lbs. Machine No. 160.

"HANDY" Casket Top Clamp No. 228

SHOWING OCTAGON CORNER TOP



This machine will clamp any shape of octagon and square frames, also any shape of moulding on same, by putting the proper shapes on offset pressure fingers and adjusting same to top of frame.

Pressure is applied with a $1\frac{1}{2}$ " diameter screw having a right and left thread.

At each end of this screw is a 17" in diameter wheel, so that operator can clamp and adjust at either end.

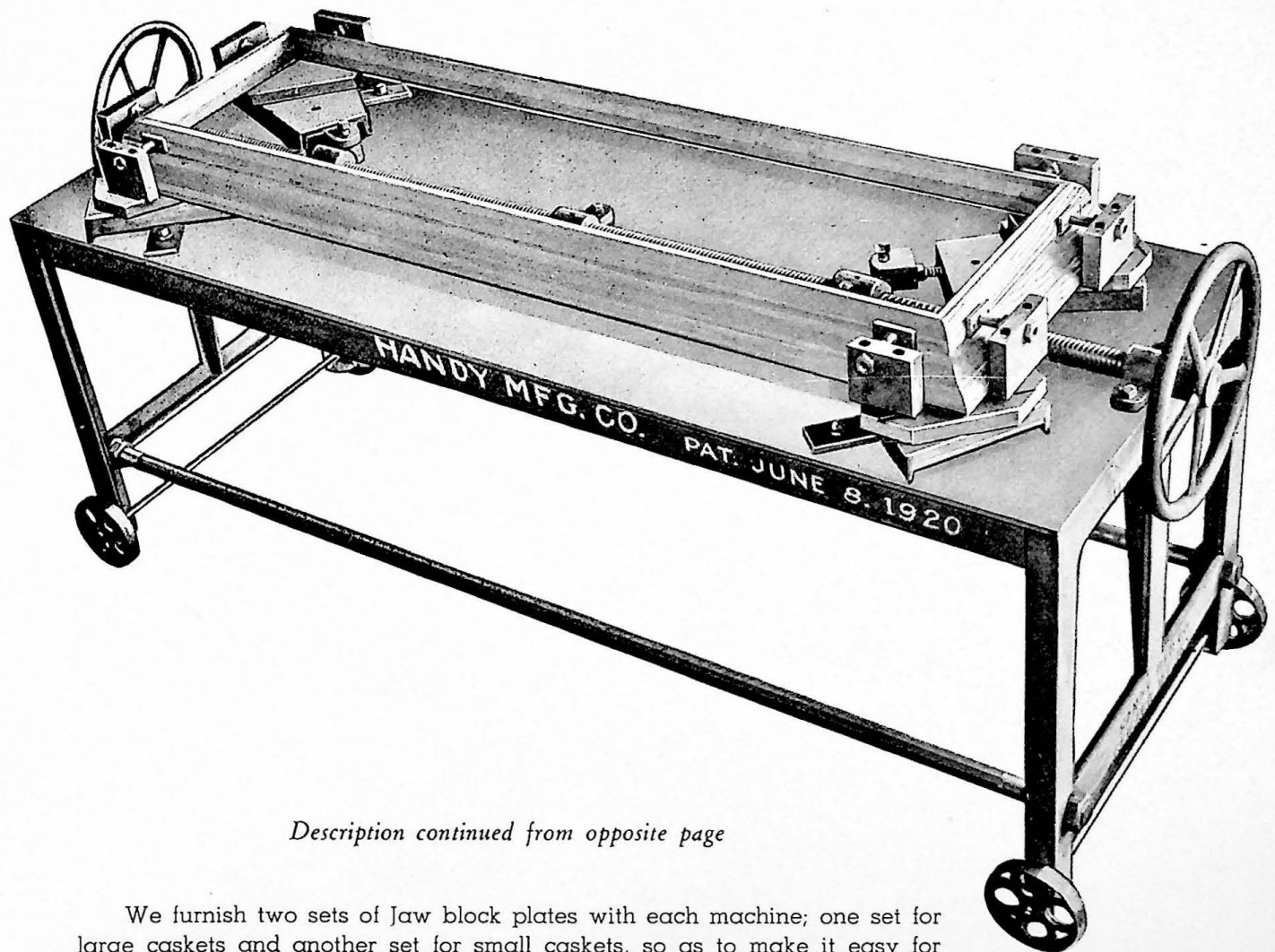
Clamp jaws are 4" high and fit in milled grooves on jaw block plates.

The sliding plates that jaw block plates are mounted on have at inside end an adjustment screw to take up any variation in work in setting up.

Stops against sliding plates are to be set after machine is adjusted to master frame, as they help to bring plates in position after each release.

"HANDY" Casket Top Clamp No. 228

SHOWING SQUARE CORNER TOP



Description continued from opposite page

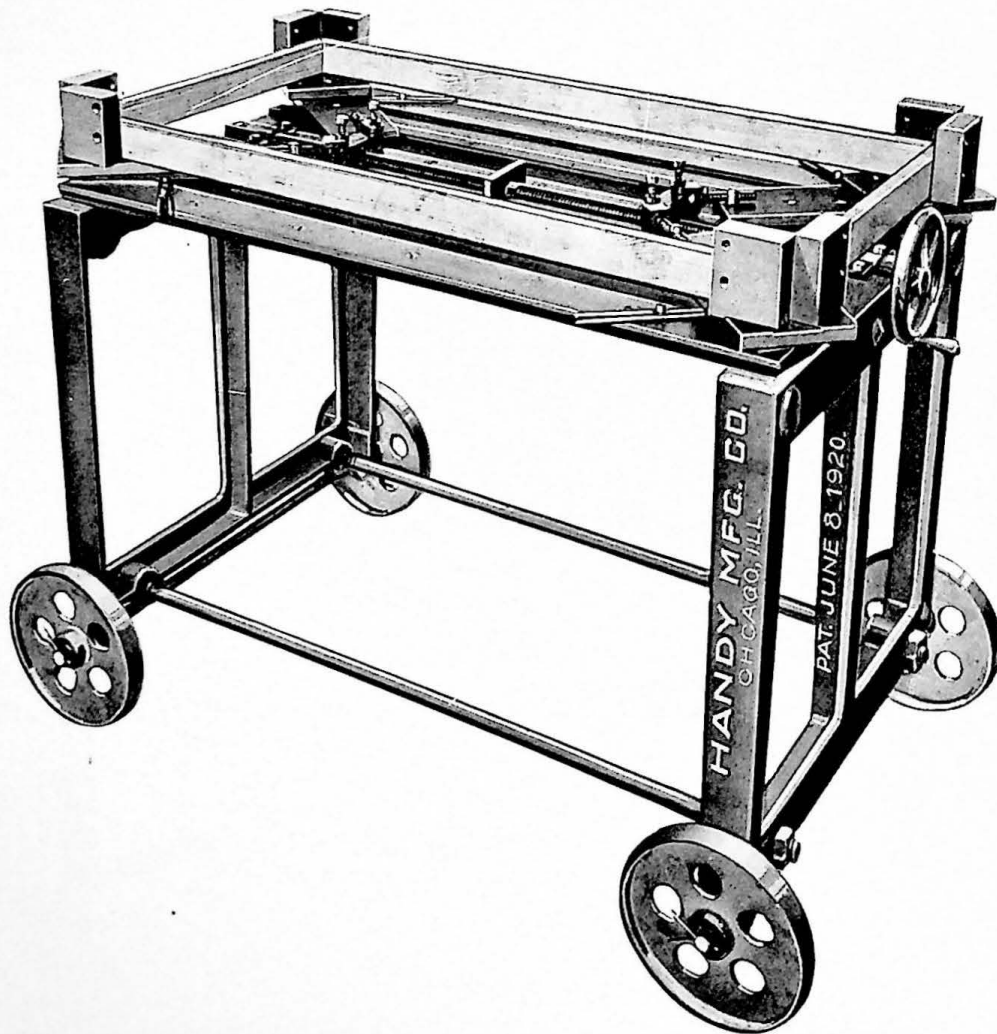
We furnish two sets of Jaw block plates with each machine; one set for large caskets and another set for small caskets, so as to make it easy for operator to nail the corners on all sizes to be clamped.

In setting up, use a glued up master frame and save time.

Construction and working of this machine is identical with our No. 190 which is being used successfully by leading manufacturers for clamping domes and frames.

Weight 1325 lbs. Machine No. 228.

"HANDY" Frame Clamp No. 195

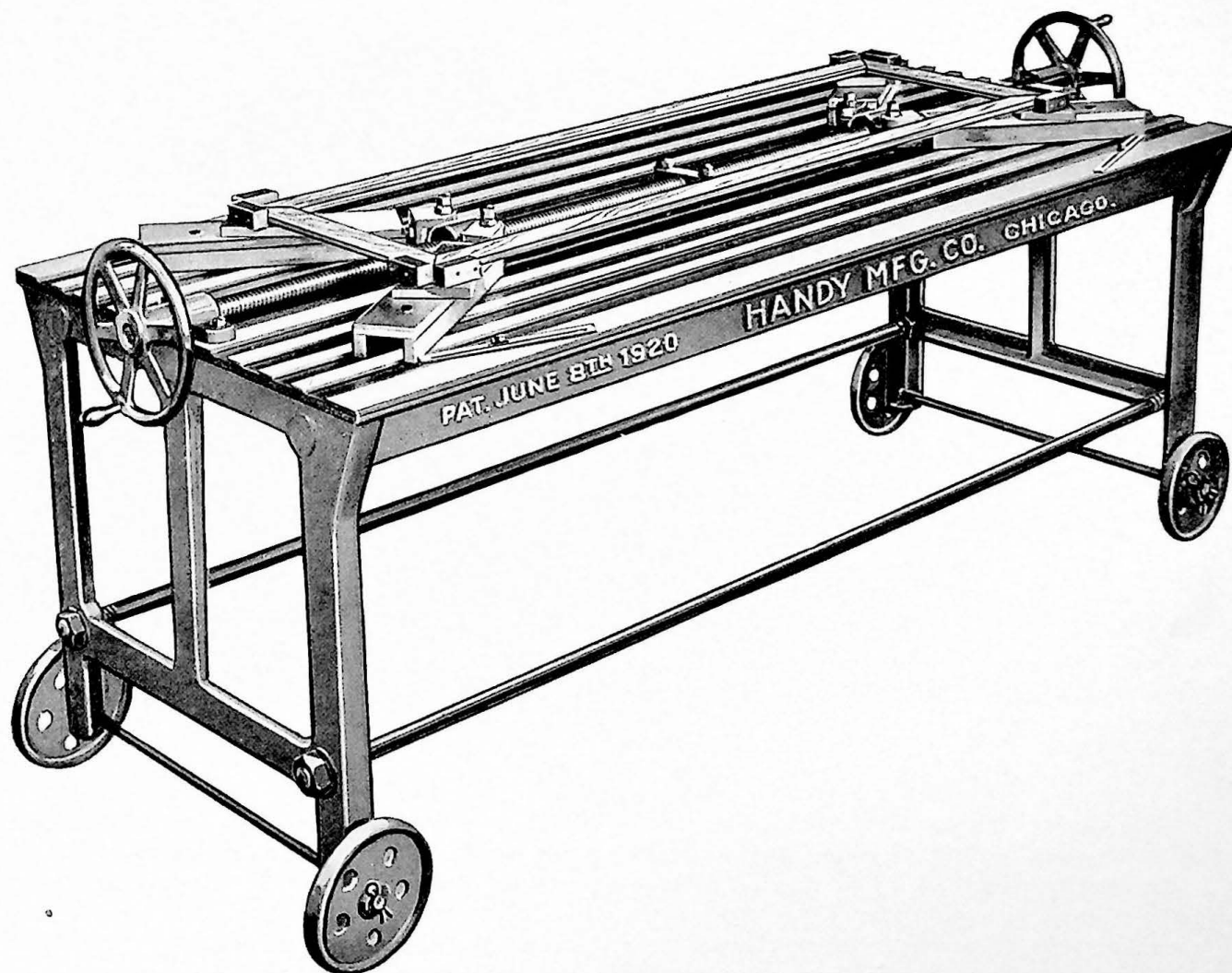


Frame Clamp shown above is similar in construction to clamps shown on pages 49 to 51 inclusive but will take a larger range of sizes, such as is required in radio cabinet work, for which work it was built. This clamp is in use in several of the larger plants manufacturing Radio Cabinets. It will take frames from 16"x14" up to 22"x49" but can be furnished for larger sizes if desired. Corner clamp blocks are made any height to suit the work. This is also the ideal clamp for clamping occasional tables of various types.

Weight about 600 lbs.

Machine No. 195.

"HANDY" Mitered Door and Frame Clamp



This Clamp is in use in a large number of Sash, Door and Interior Finish plants, for clamping mitered corner doors, some calling them Miracle doors and frames. It is quick in operation, as the turning of the wheel at either end does the clamping. Wheels at both ends are furnished, so operator need not walk back, if more pressure is required when at opposite end of the Clamp. Jaws, unless otherwise specified, are $1\frac{1}{4}$ " high.

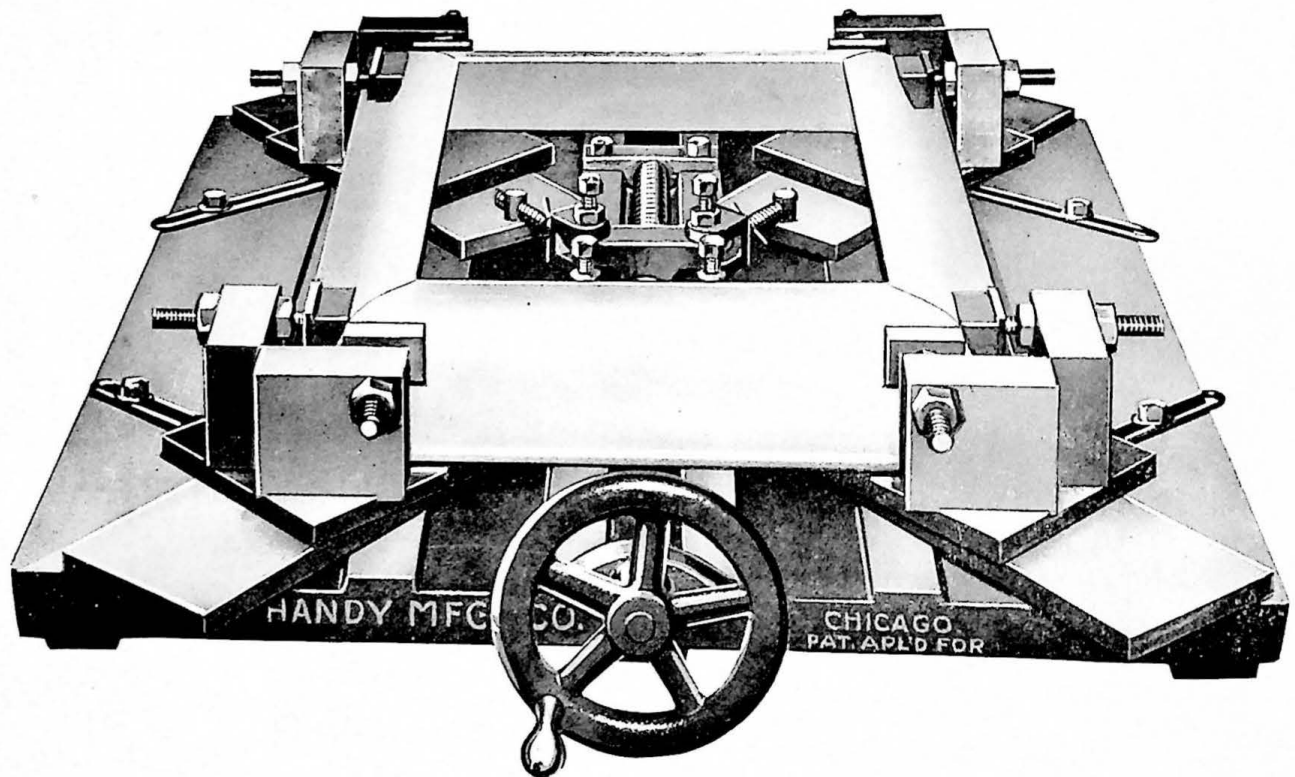
We list this Clamp in two sizes, other sizes to your order:

Machine No. 197 takes frames or doors from 90"x36" down to 14"x19".

Machine No. 198 takes frames or doors from 74"x28" down to 14"x19".

Weight, 1300 lbs.

"HANDY" Dome and Frame Clamp No. 190

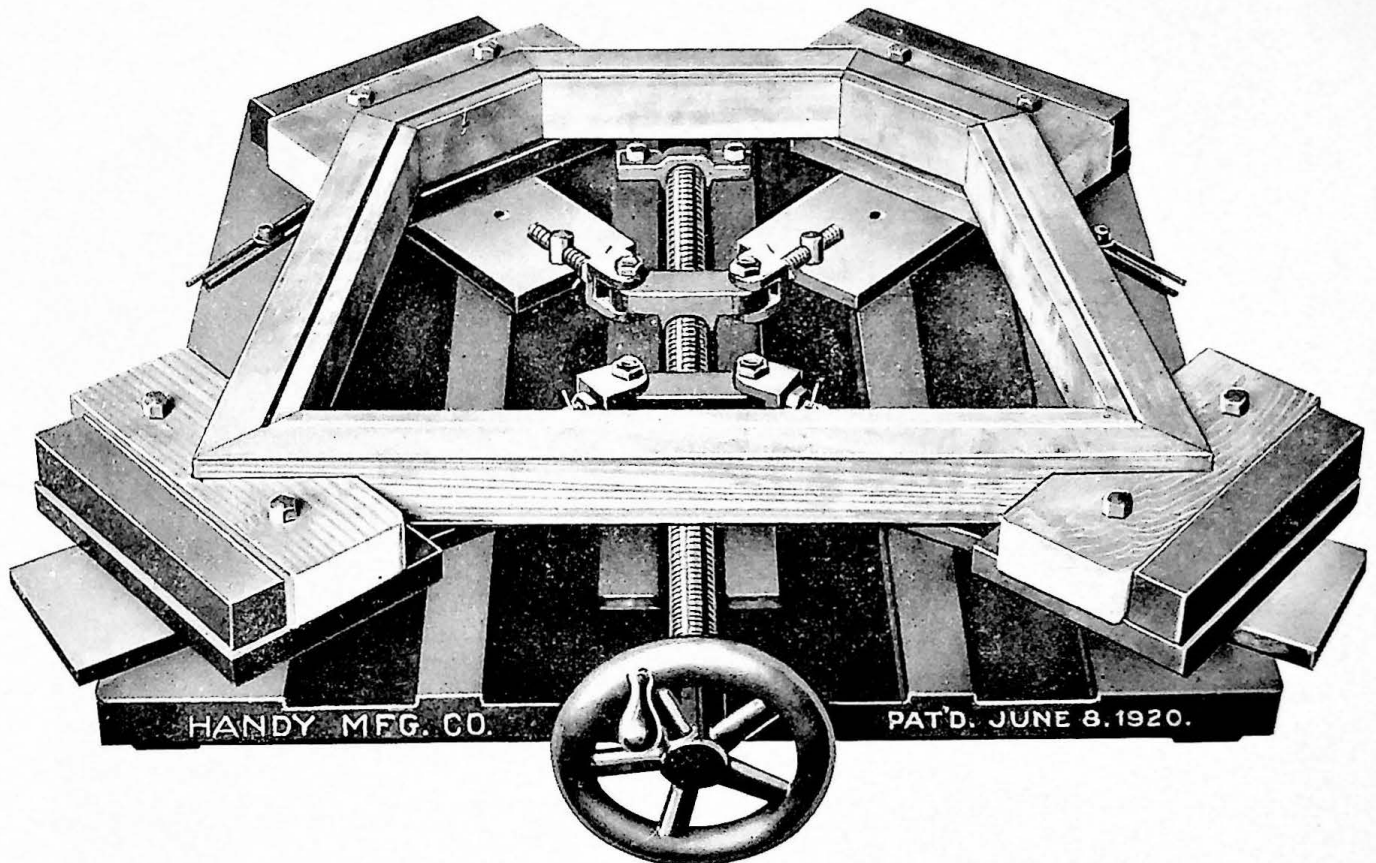


This Clamp is designed for use in clamping up Domes and Frames on Cabinets or similar work and is very quick-acting. It is also used for clamping up Card Table Tops. Pressure is applied with a 1" diameter screw having a right and left thread. Jaws on jaw plates are $3\frac{1}{2}$ " high and $\frac{3}{8}$ " long and fit in a milled groove on plates. Other type jaws will be furnished to suit your work. Each jaw block has an adjustable screw with a steel plate at one end to allow for fastening wood shape to apply pressure against offset on Domes. When using for plain frames, offset pressure screws can be removed. Jaw plate swivels to conform to different sizes. Sliding plates that jaw block screws can be removed. Jaw at one end an adjustment screw to take up any variation in setting up and also any variation caused by wear.

It has also three tapped holes to be used for fastening jaw block plates in order to get the maximum and minimum capacity. Wire fork stops shown in cut are to be adjusted against sliding plates after machine is adjusted to your Master Dome or Frame, as they will help to bring plates in position. Capacity of machine is maximum 30"x30", minimum 16"x16", and will take any combination of sizes in between. In setting up use a glued-up Master Frame and save time. Weight 200 lbs. Machine No. 190.

Jaw plates as shown on our Frame Clamping Machine No. 160 will also fit this machine.

"HANDY" Frame Clamp No. 226



This clamp is intended for clamping up straight or irregular shaped mitered frames. Note that frame in cut is wider at one end than at the other.

By bolting on wood shapes as shown any shape will be clamped accurately.

Capacity 30"x30" down to 14"x14" and any sizes in between.

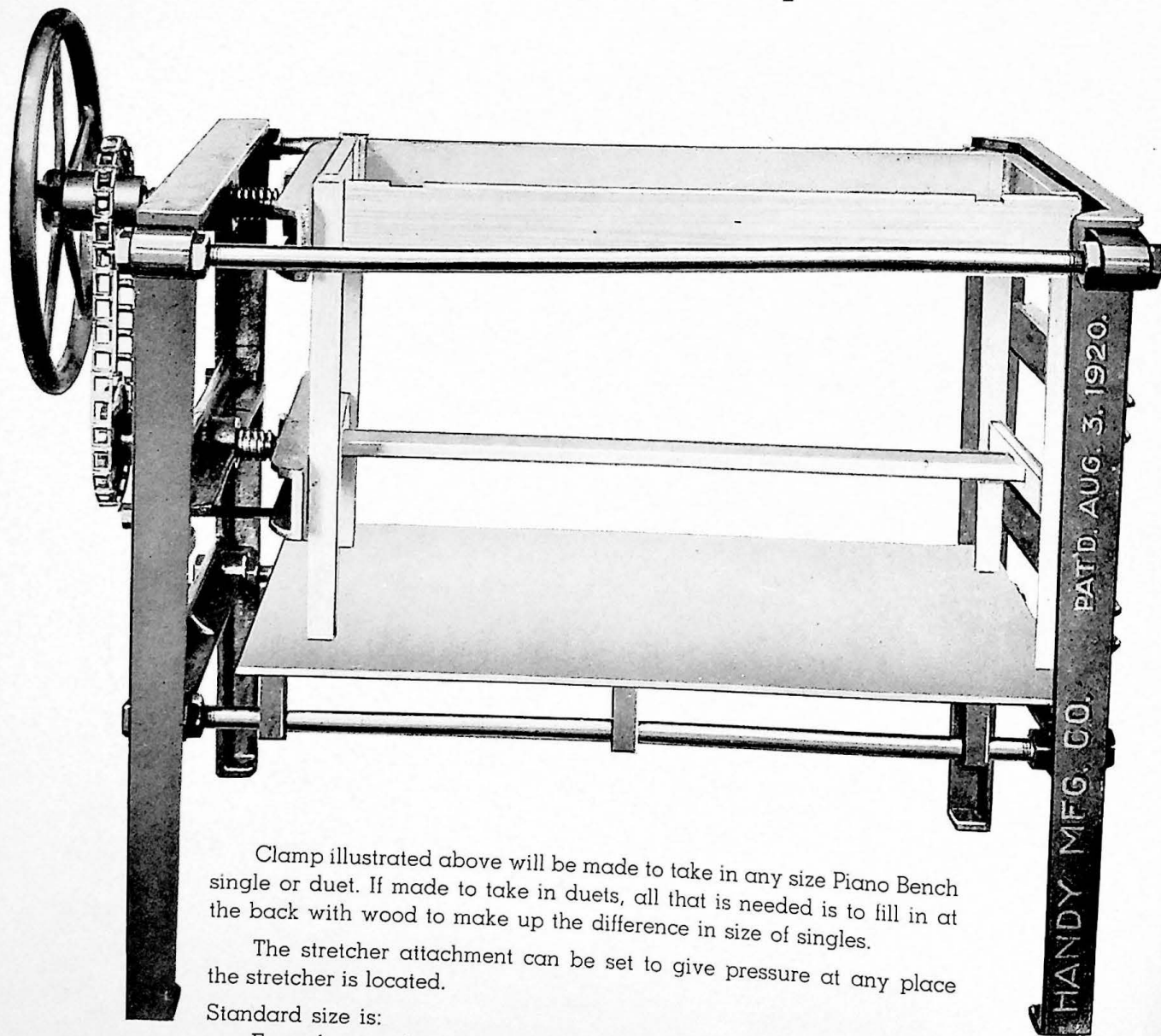
Pressure is applied with a 1" screw having a right and left thread. Sliding plates that jaw blocks are mounted on, have at inside end an adjustment screw to take up any variation in setting up, and also any variation caused by wear.

Wire fork stops shown in cut are to be adjusted against sliding plates after machine is set to glued-up master frame, as they assist in bringing plates in position after each clamping.

Jaw plates as shown on our No. 160 and No. 190 clamps will also fit this clamp and increase its range of work.

Weight 190 lbs. Machine No. 226.

"HANDY" Piano Bench Clamp No. 224



Clamp illustrated above will be made to take in any size Piano Bench single or duet. If made to take in duets, all that is needed is to fill in at the back with wood to make up the difference in size of singles.

The stretcher attachment can be set to give pressure at any place the stretcher is located.

Standard size is:

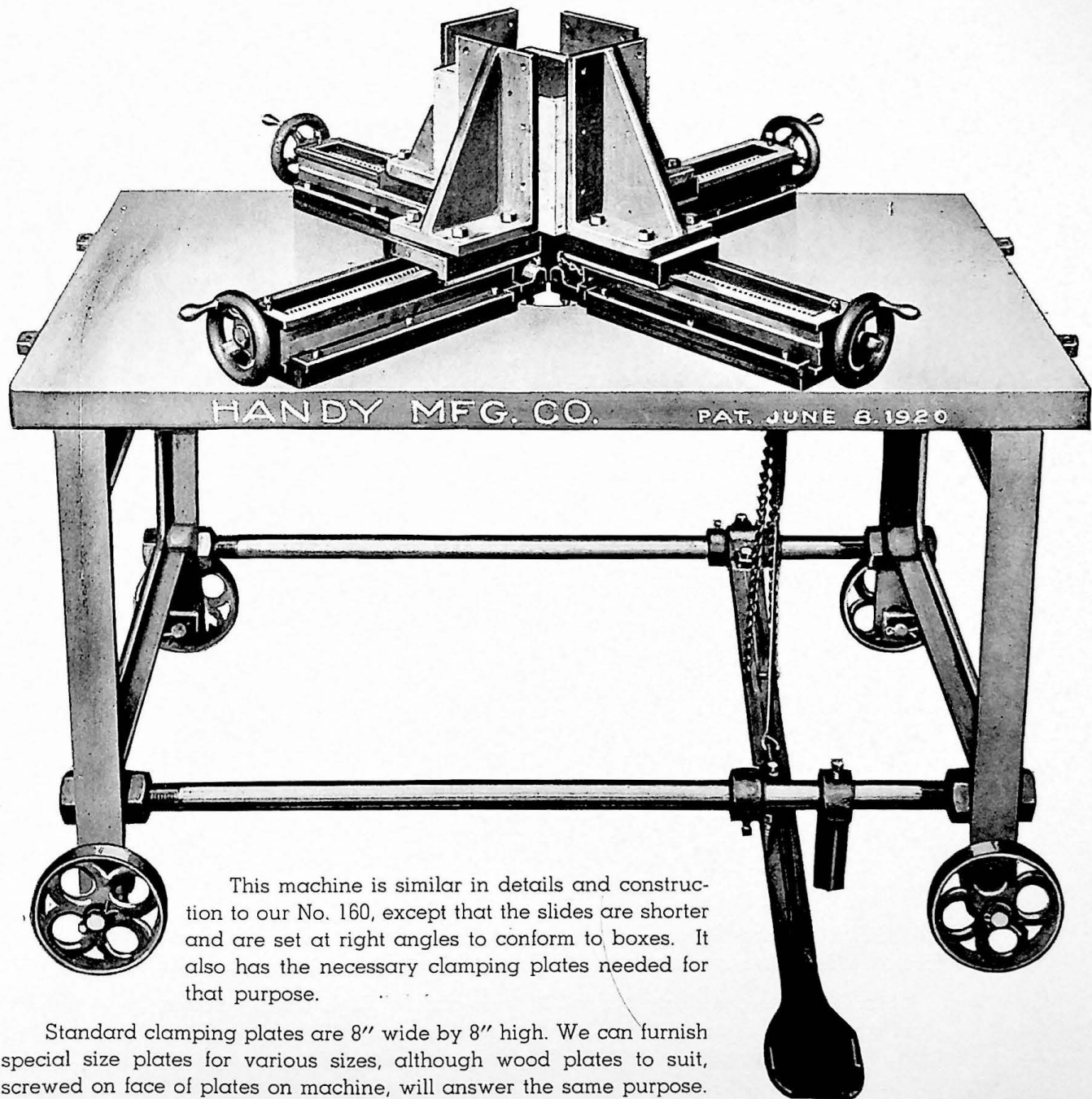
From front to back, 36"; width at front end 25 $\frac{1}{2}$ "; width at back end, 24 inches.

If different length than 36" is desired, please specify.

Also note air operated clamp No. 158 on page 28 which can also be adapted for this work.

If stretcher attachment is not needed deduct \$20.00 from list price.
Weight, 450 lbs. Machine No. 224.

"HANDY" Box Clamp No. 227



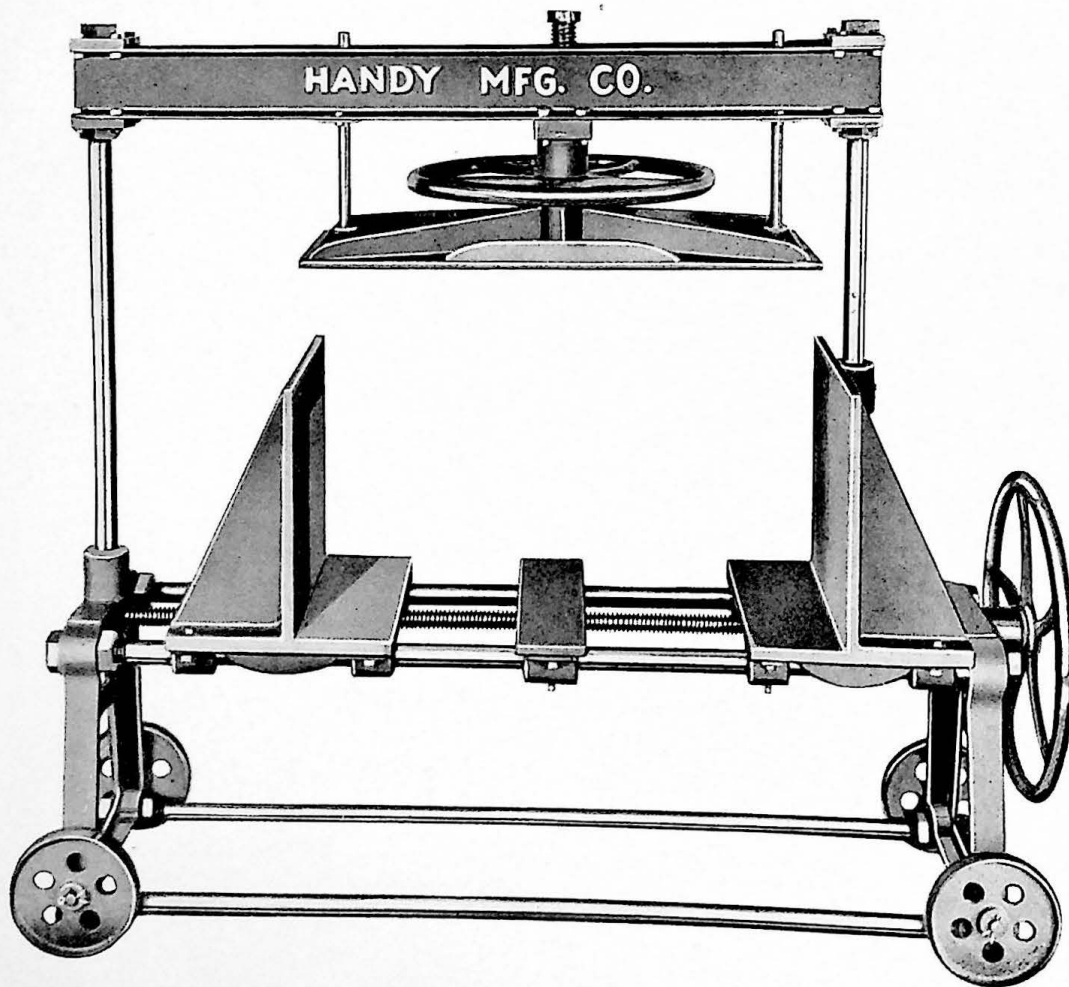
This machine is similar in details and construction to our No. 160, except that the slides are shorter and are set at right angles to conform to boxes. It also has the necessary clamping plates needed for that purpose.

Standard clamping plates are 8" wide by 8" high. We can furnish special size plates for various sizes, although wood plates to suit, screwed on face of plates on machine, will answer the same purpose. Capacity 5"x5" up to 28"x28", and any sizes in between, whether square or oblong. This is the best clamp possible for clamping the better grade of boxes.

It is operated entirely by foot-lever pressure, but can also be furnished with air power.

Weight, about 1150 lbs Machine No. 227.

"HANDY" Cabinet Clamp With Top Pressure Plate No. 45



Above illustrated clamp can be furnished in any size of clamp plates for both side and top pressure and for adjustment any distance up and down.

Standard size has clamp plates 20" wide and 18" high with 7" bottom work surface and open up 42". Center adjustable plate is 6" wide and 28" long. Top pressure plate is 39"x17". Both wheels for applying pressure are 24" in diameter. Height from floor to working surface is 23".

This clamp is also adapted for clamping end and bottom panel to baby carriage bodies.

Weight, 1250 lbs. Machine No. 45.

"HANDY" Lock Corner Chest and Drawer Clamp No. 235

On this page we illustrate a new clamp for driving down the sides of Cedar Chests or Drawers, where lock corner joint such as is shown in lower corner cut, or similar to this, is used in their construction.

The large wheel is mounted on a steel shaft, running the full length of clamp. On this shaft is mounted two pinions, which slide on keyway the full length of shaft, thus allowing for adjustment for different lengths of work.

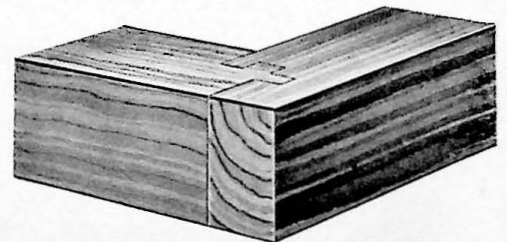
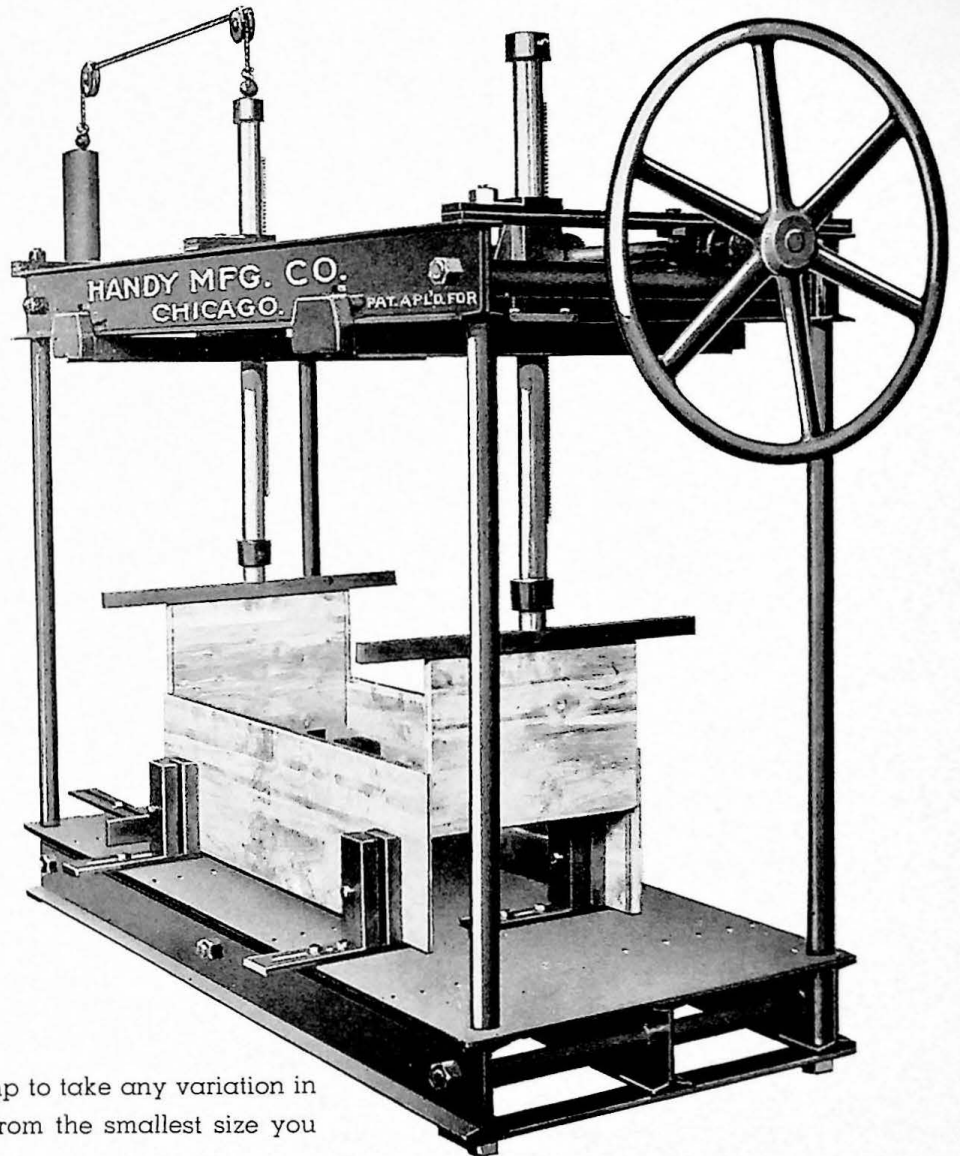
The pinions engage with steel racks, fastened to the two driving rods, which are mounted on the adjustable cross beams.

By turning the wheel, uniform pressure is applied on each case end. Weight and pulley arrangement will keep driving rods at top when loading or unloading.

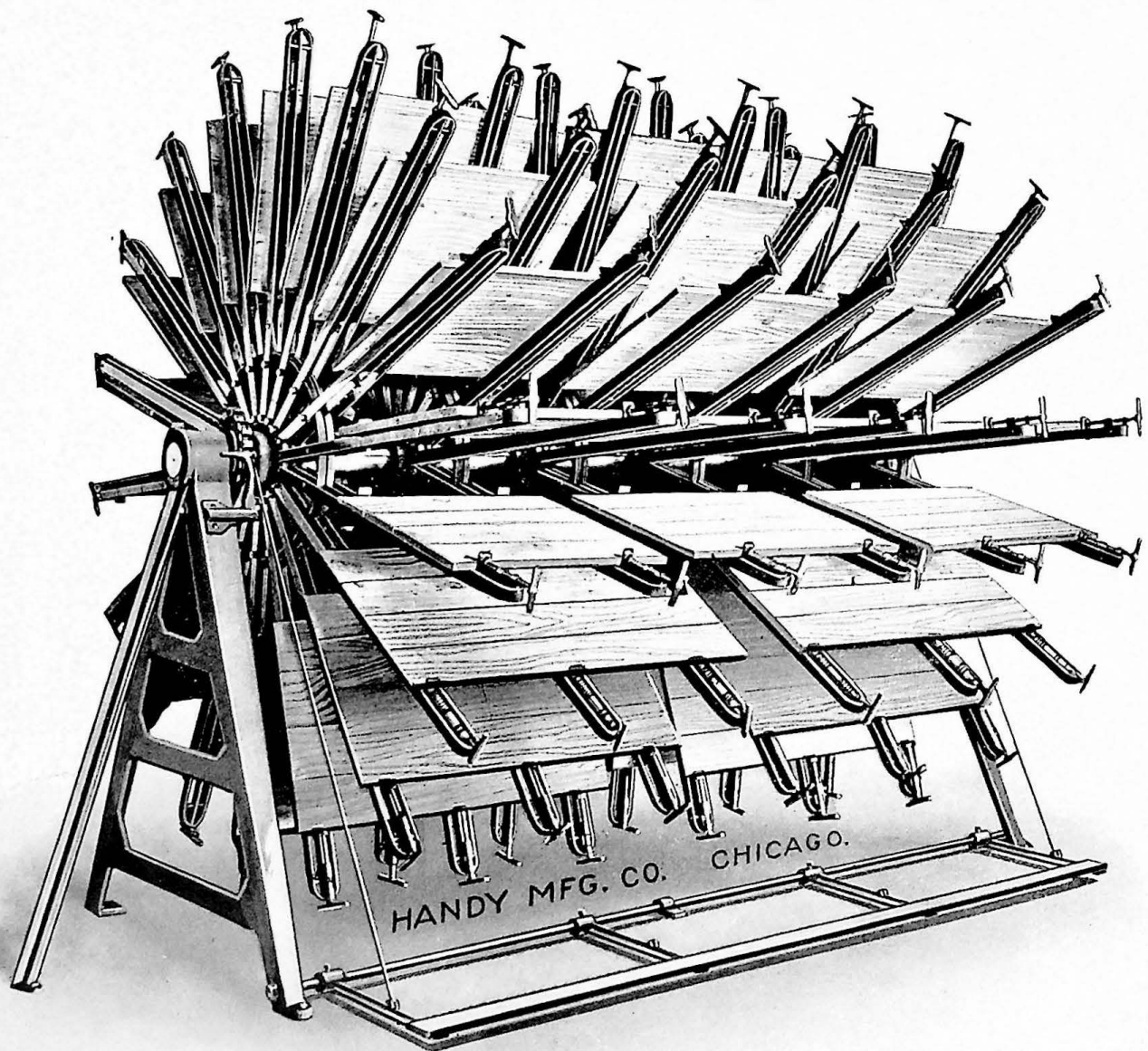
We will quote on and build this Clamp to take any variation in sizes, as machine is quickly adjusted from the smallest size you may specify to the largest.

This Clamp is already in use in several Cedar Chest Factories and has proven quick and satisfactory in operation.

Weight 1000 lbs. Machine No. 235.



"HANDY" Revolving Clamp Carrier



This cut shows machine No. 114 made 12 feet in the clear with 6 wheels. Many factories using our machine have reduced their clamping costs by one-half.

The "HANDY" REVOLVING CLAMP CARRIER combines the speed, efficiency, quality and reliability of a carrier at double the price.

Our machine has a 4" cold rolled steel shaft, any length desired up to 16'. This shaft has $\frac{7}{8}$ " key running its entire length. The clamp wheels consist of two flanges 26" in diameter, and have a keyway running through the bore, permitting the flanges to slide lengthwise on the shaft.

Each clamp wheel has 18 clamps and each clamp has 3 bars. The center bar is placed between the pair of flanges, the other bars on either side. Two bolts, 7" apart, go through each 3-bar clamp and flanges, drawing them together. This makes each clamp absolutely rigid. No amount of hammering on stock will get clamps out of line. The clamps will not bend and will not buckle the stock, thus doing away with pressure clamps on top. There are less parts to break or wear out on this machine than on any other machine made. Many machines have been in use for from 15 to 20 years without requiring any repair parts.

To operate the carrier, step on any part of the foot treadle, which releases the stop at each end. Revolve carrier and it will lock itself at the next stop.

"Our Carrier" is as quickly operated as a power-driven machine—the only difference is that instead of operator being idle while the power-driven machine turns, he revolves our machine by hand. Thus the time consumed is the same.

A strong point is this: Owing to the construction of the "Handy" Carrier, a long machine can be used with as few Clamp Wheels as desired, and any number of clamp wheels can be added when wanted. We make three sizes of clamps for this machine, one to take in 31½", one to take in 38" and one to take in 42". Height of carrier with 31½" clamp, 9' 3"; with 38" clamp, 10' 4"; with 42" clamp, 11'. Six-wheel machine illustrated weighs about 4500 lbs.

Machine

- No. 110. 2-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 111. 3-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 112. 4-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 113. 5-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 114. 6-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 115. 7-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 116. 8-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 117. 9-wheel machine with 31½" clamps and any length in the clear up to 14½'.
- No. 120. 2-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 121. 3-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 122. 4-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 123. 5-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 124. 6-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 125. 7-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 126. 8-wheel machine with 38" clamps and any length in the clear up to 14½'.
- No. 127. 9-wheel machine with 38" clamps and any length in the clear up to 14½'.

When ordering, specify distance in the clear for stock lengthwise.

"HANDY" All Steel Veneer Presses

EQUIPPED WITH EITHER PATENTED SPLIT NUT OR SOLID NUT

Split bearing reduces to a minimum the time it takes operator to work screws up or down each time he changes the height of stock to be glued.

A $\frac{5}{8}$ -turn of handle opens or closes nut. When "split bearing" or nut is opened, screw can be pushed up or down. When pushed to the top, the screw will fasten to a hook, so there is no need of closing the nut when not in use.

It is a great convenience for operator to always move screw up to the top when placing work on bed to be glued, giving plenty of room to work.

To illustrate what the quick-acting "Handy" Glue Press means to you. Supposing you have a press with 30 screws and your operator wishes to move them all 10 inches, each screw requires three turns to the inch; therefore your operator would have to make 900 turns by hand to accomplish this, whereas with the "Handy" patent he only needs to throw handle $\frac{5}{8}$ of a turn and push screws up to the top, to HANG THERE until he has his work in place, when he lets them drop, closes the nut with another $\frac{5}{8}$ turn of the handle and applies pressure.

Press is constructed of steel beams, unbreakable, and all castings are best malleable.

All beams under the bed plate are planed, assuring a perfectly level surface.

The screws, 2" in diameter and 24" long, are made of cold rolled steel and have a full depth standard acme thread. Screws will travel up and down 17".

Note the sprocket casting has three steel handles which enables operator to take up the slack before applying ratchet wrench.

Cross beams slide easily on roller bearings, full length of press. Both solid and split nut bearings slide on flanges of cross beams, thus eliminating the large number of bolts and nuts ordinarily used.

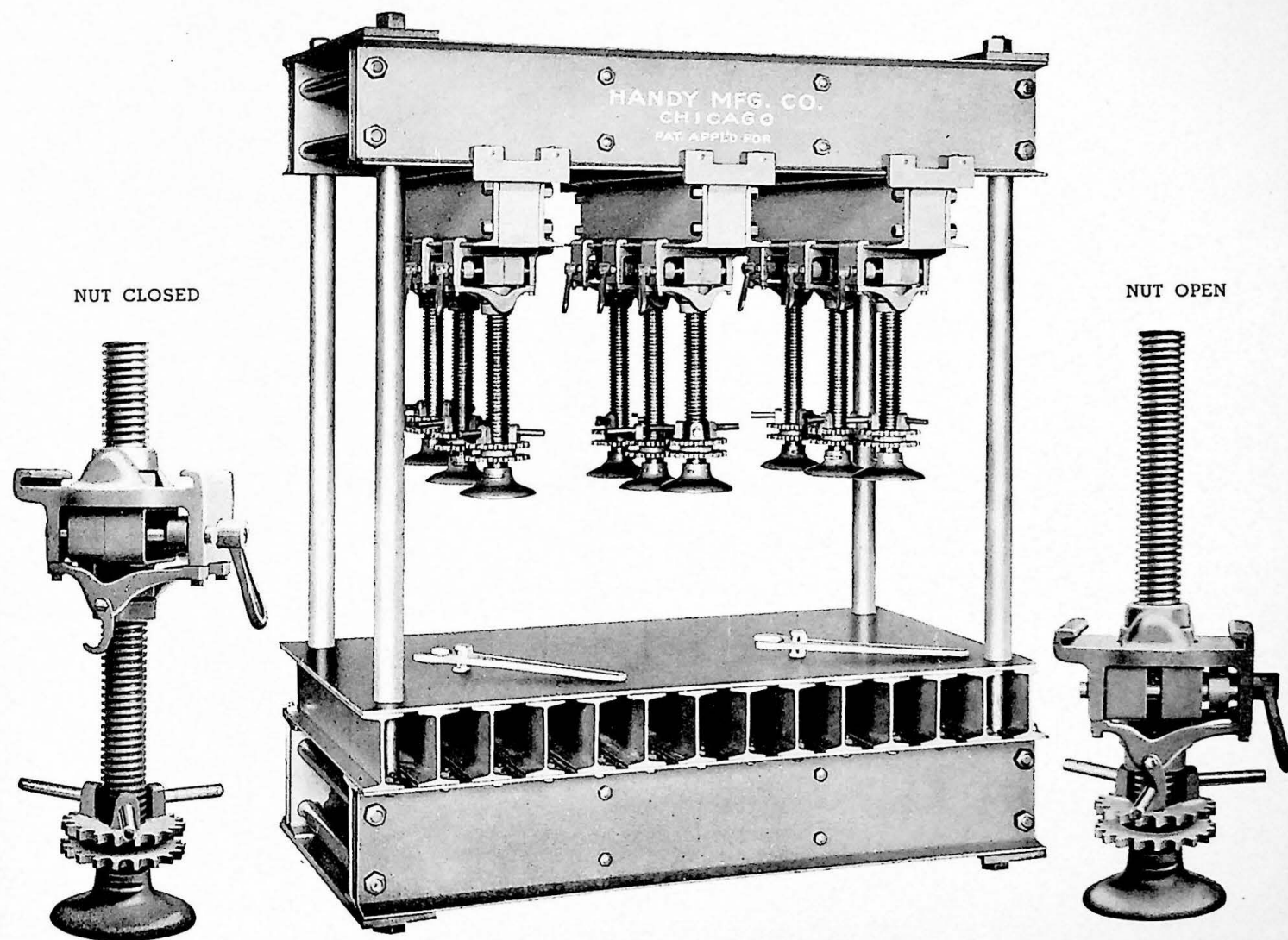
The "HANDY GLUE PRESS" is far superior to the old style cast iron press and is guaranteed against wear and breakage. It will turn out more work than old style sectional press. One man can do the work alone with our open front presses.

Do away with your old wooden construction. Buy an up-to-date "Handy Glue Press".

Patented ratchet wrench fits between double sprocket. See cut of sprocket on screws on opposite page.

Ask for further information. We make presses of any length and width desired and with any number of cross beams and any number of screws on each cross beam. Write us for prices and state dimensions desired. Consult page 60 for list of standard sizes.

"HANDY" All Steel Quick-Acting Veneer Press



Press shown above is 5 ft. x 3 ft. in the clear

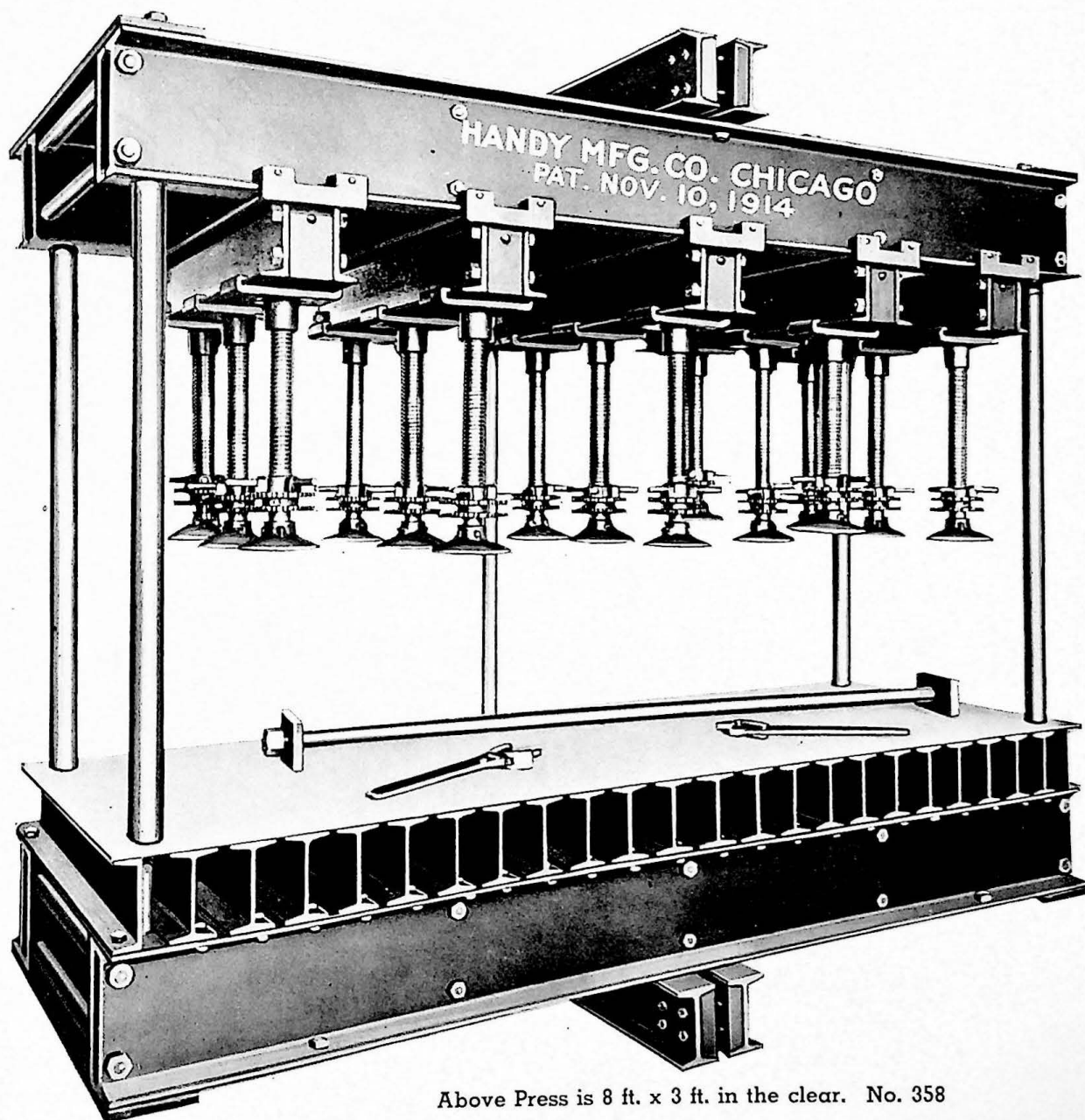
Ask for names of factories near you using "Handy" Presses

List of Standard Sizes "HANDY" Steel Presses

IN THE CLEAR		CROSS BEAMS	SCREWS	WEIGHT ABOUT (POUNDS)	PRESS NUMBER
LENGTH FEET	WIDTH FEET				
16	8	12	60	21500	345
16	5	10	40	15000	346
16	4	10	30	13000	347
16	3	10	30	10000	348
14	8	9	45	18000	348½
14	5	9	36	13500	349
14	4	9	36	12000	350
14	3	9	27	9000	351
12	5	8	32	12000	351½
12	4	8	32	9500	352
12	3	8	24	7000	353
10	5	6	24	10000	353½
10	4	6	24	8000	354
10	3	6	18	6000	355
10	2	6	12	4000	356
8	5	5	20	7500	356½
8	4	5	20	6000	357
8	3½	5	15	5000	357½
8	3	5	15	4500	358
8	2½	5	10	4000	359
8	2	5	10	3600	360
8	1½	5	5	3000	361
7	3	4	12	4000	362
7	2½	4	8	3500	363
7	2	4	8	3000	364
6	3	4	12	3600	365
6	2½	4	8	3000	366
6	2	4	8	2650	367
5	3	3	9	3000	368
5	2½	3	6	2600	369
5	2	3	6	2200	370
4	3	3	9	2400	371
4	2½	3	6	2000	372
4	2	2	4	1600	373
3	2	2	4	1200	374
2	2	2	4	800	375
1½	1½	2	2	600	376

We will quote on any size press, larger or smaller, not listed above and with more or less cross beams and screws on each press.

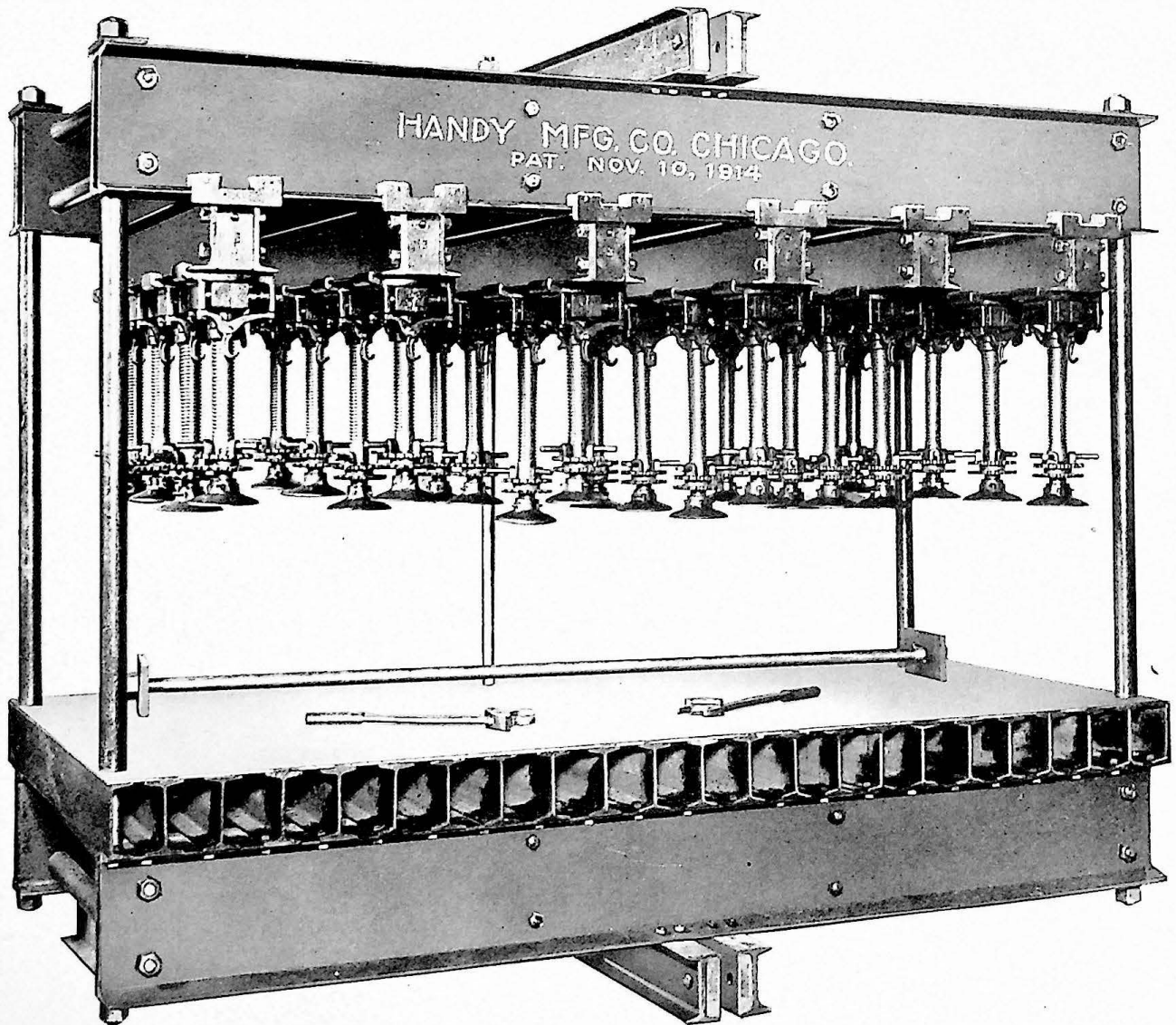
"HANDY" All Steel Veneer Press—with Solid Nuts



Above Press is 8 ft. x 3 ft. in the clear. No. 358

The CORRECT way to build a Veneer Press is to put the CENTER SUPPORT underneath the press as shown on cut. There is a center support for all presses 8 ft. long and over. See page 58 for description.

"HANDY" All Steel Veneer Press—with Split Nuts

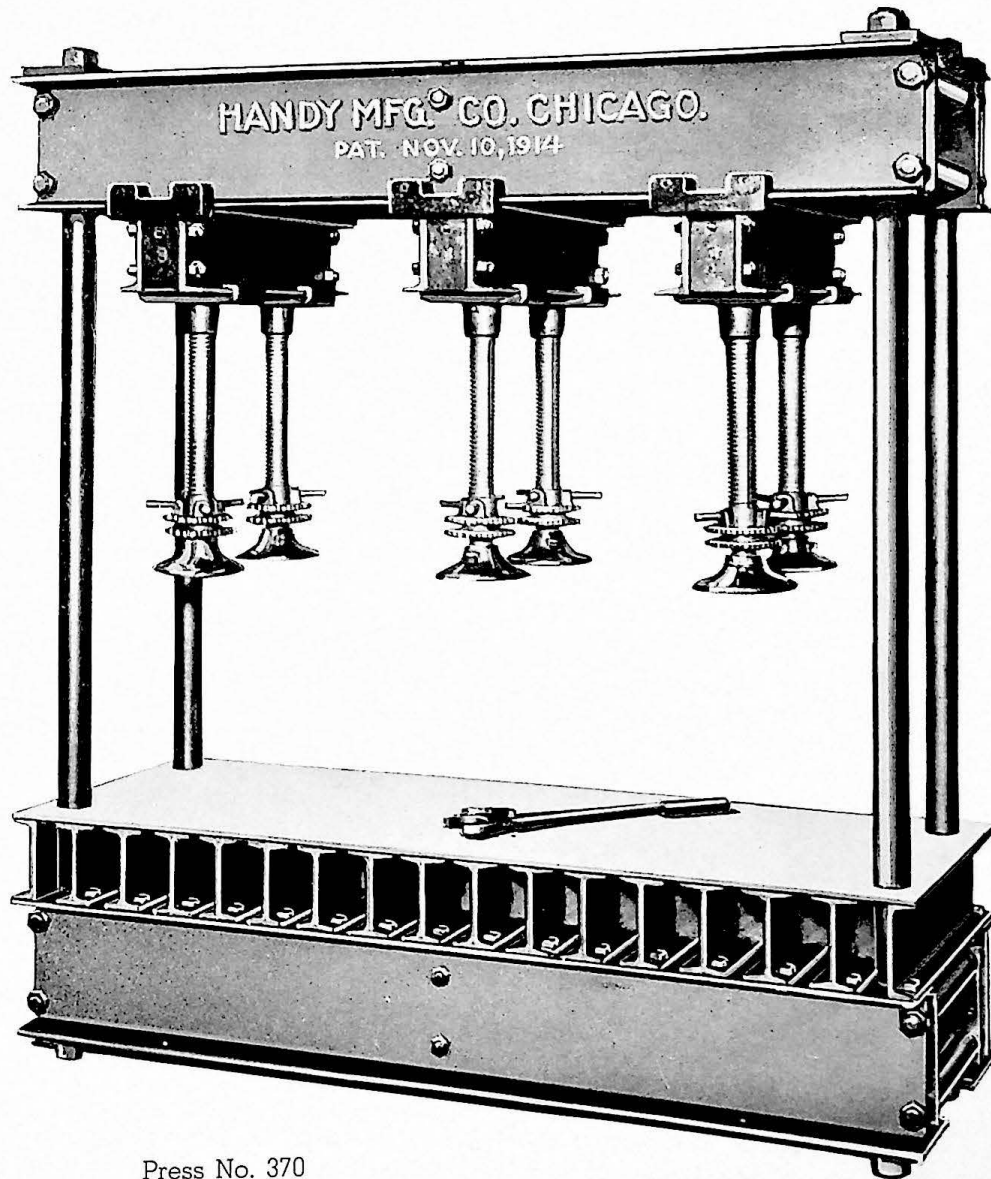


Press illustrated on this page is 10 feet long and 4 feet wide in the clear, with six Cross Beams and 24 screws working in Patent Quick-Acting Bearings. For full particulars read our description on page 58. Weight about 8000 lbs.

Let us quote you on any size press suitable for your needs with either solid or Quick-Acting Bearings. Ask for names of factories near you using "Handy" Presses.

Consult page 60 for list of standard sizes.

"HANDY" All Steel Veneer Press



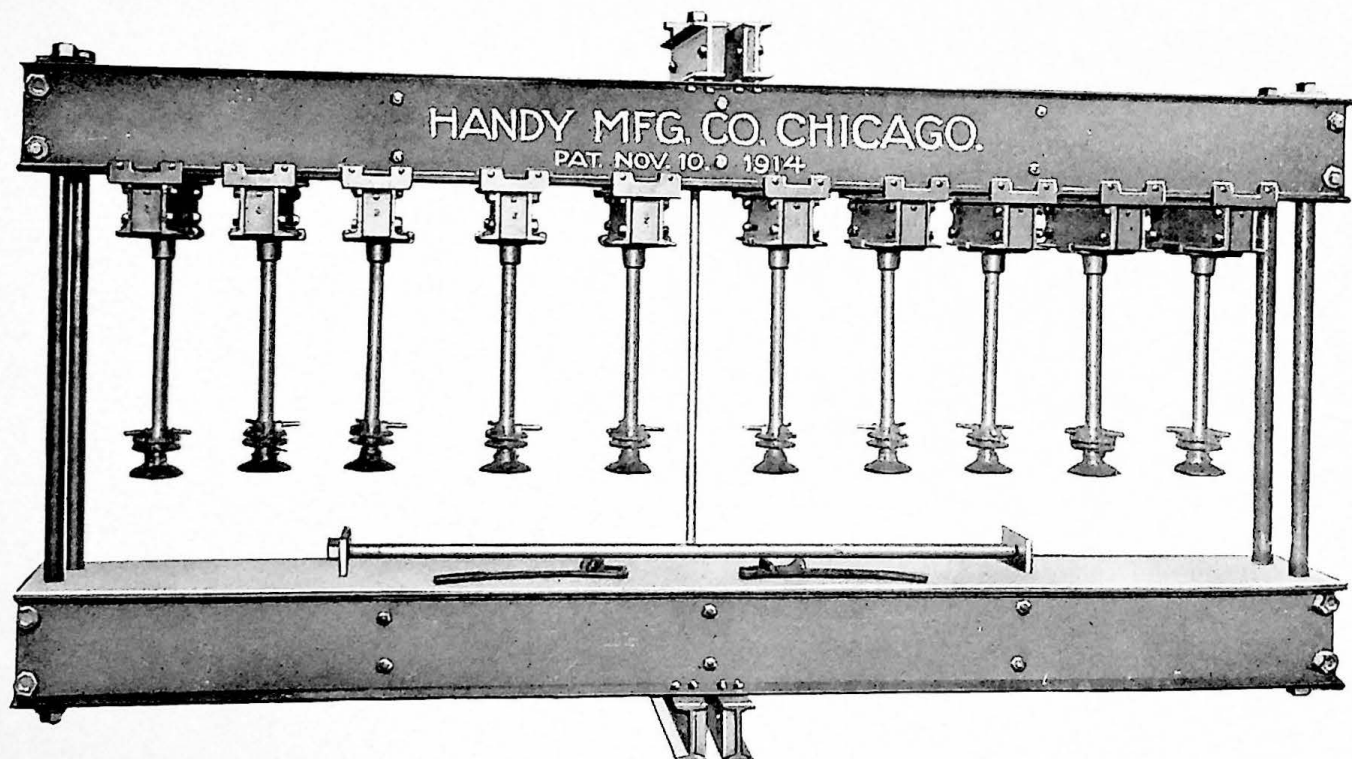
Press No. 370

Above illustration shows steel press 5 feet long and 2 feet wide in the clear, with 3 cross beams and 6 screws with solid bearings. For full particulars applying to all sizes of presses read description on page 58.

Consult page 60 for list of standard sizes.

Ask us for price on Press suitable for your needs.

"HANDY" All Steel Veneer Press



Above cut shows press with Solid Bearings 12 feet long, 16 inches wide in the clear. We will build any size press to your specifications. All presses can be fitted with our Patented "Quick-Acting Nut," as shown on page 59 of our catalogue. Read description applying to all presses on page 58. Consult page 60 for list of standard sizes.

Weight about 5000 lbs.

Press No. 339.

"HANDY" All Steel Press with Quick-Acting Bearing No. 340

This press is 24"x20" in the clear and equipped with Quick-Acting Bearing and extra long screw having a travel of 30"; measures 36" from bed plate to end of screw. This press is suitable for any work within its reach, such as glueing on tops and bottoms on boxes. Also much in use in paper and printing plants for pressing down stacks of paper to be edge sprayed.

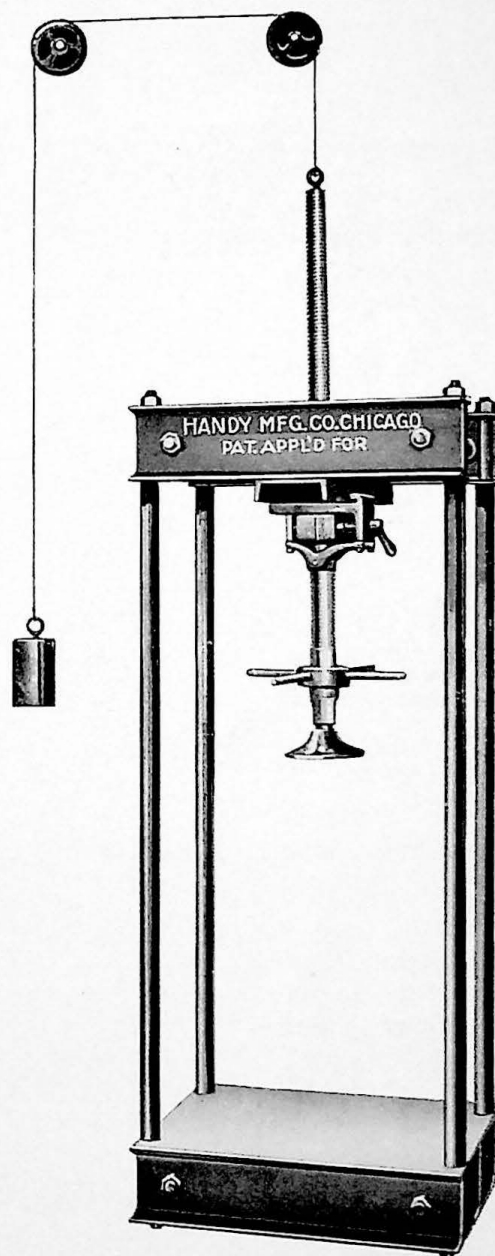
We build presses to your specifications with either solid or Quick-Acting Bearings.

We do not furnish pulleys or weights.

Any of our presses with Quick-Acting Bearings can be equipped with counter weights and pulleys as shown here.

This machine weighs about 300 lbs.

Press No. 340.



"HANDY" All Steel Press No. 310

Steel press shown here is 4 feet long and 2 feet wide in the clear and measures 50" from Bed surface to end of screw when all the way up but can be made lower or higher if desired. It is suited for clamping top rims on cabinets or similar work. This press is built up from 6" steel beams. Uprights are cold-rolled steel. Screws are cold-rolled steel 1½" in diameter.

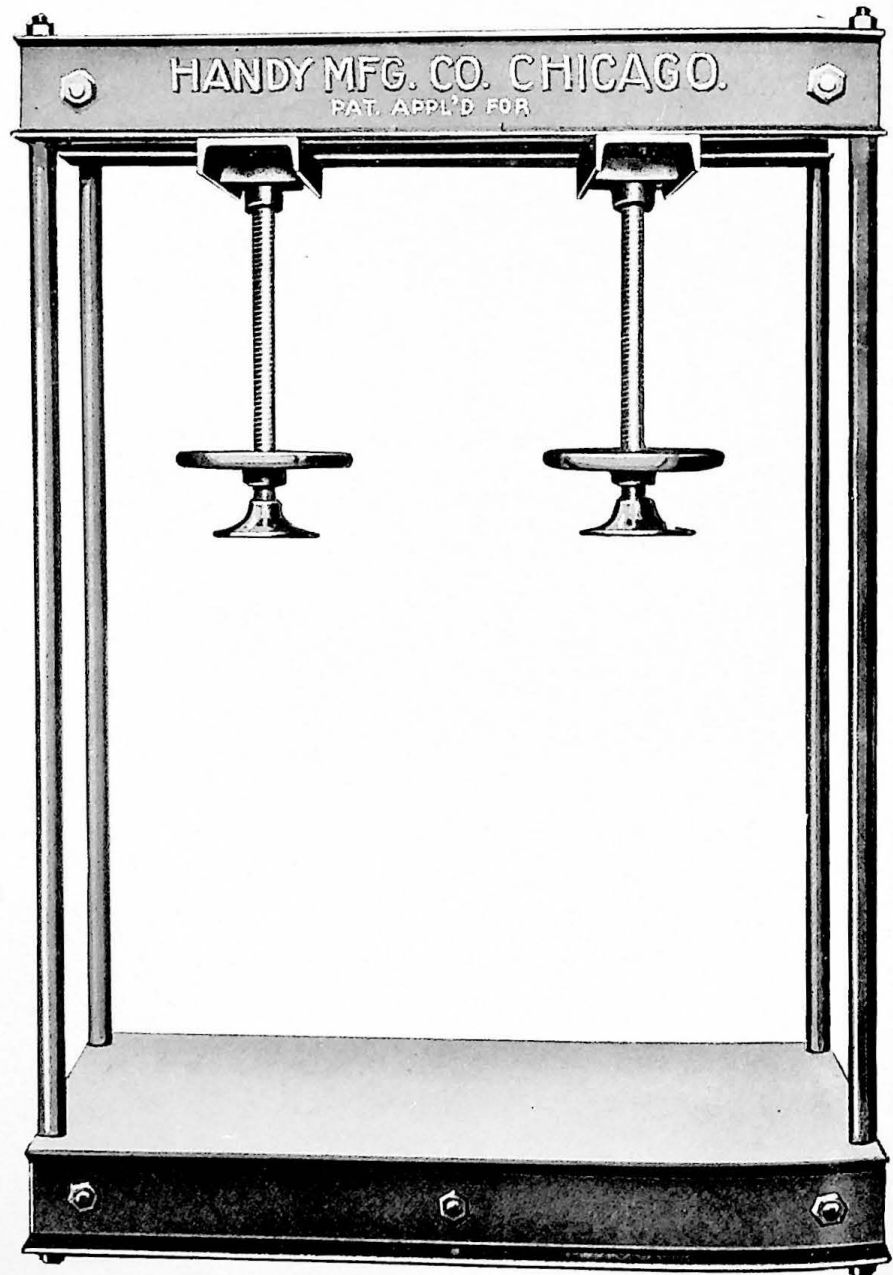
Wheels for applying pressure which we have substituted for the ratchet wrench ordinarily used are 16" in diameter and make press very easy to operate.

Flanges at the end of screws are 6½" in diameter.

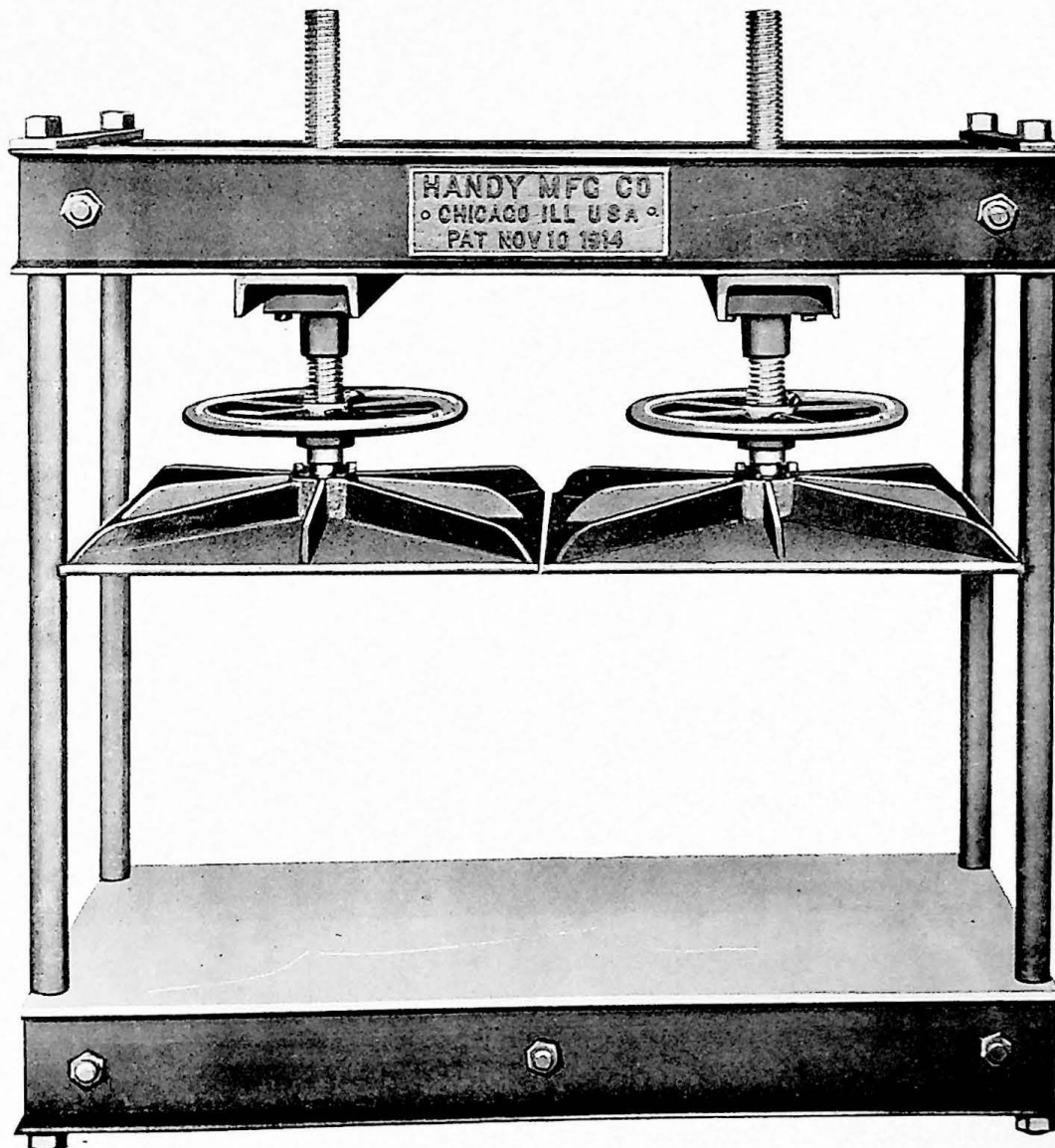
Press weighs about 650 pounds.

We make this press any size desired.

Press No. 310.



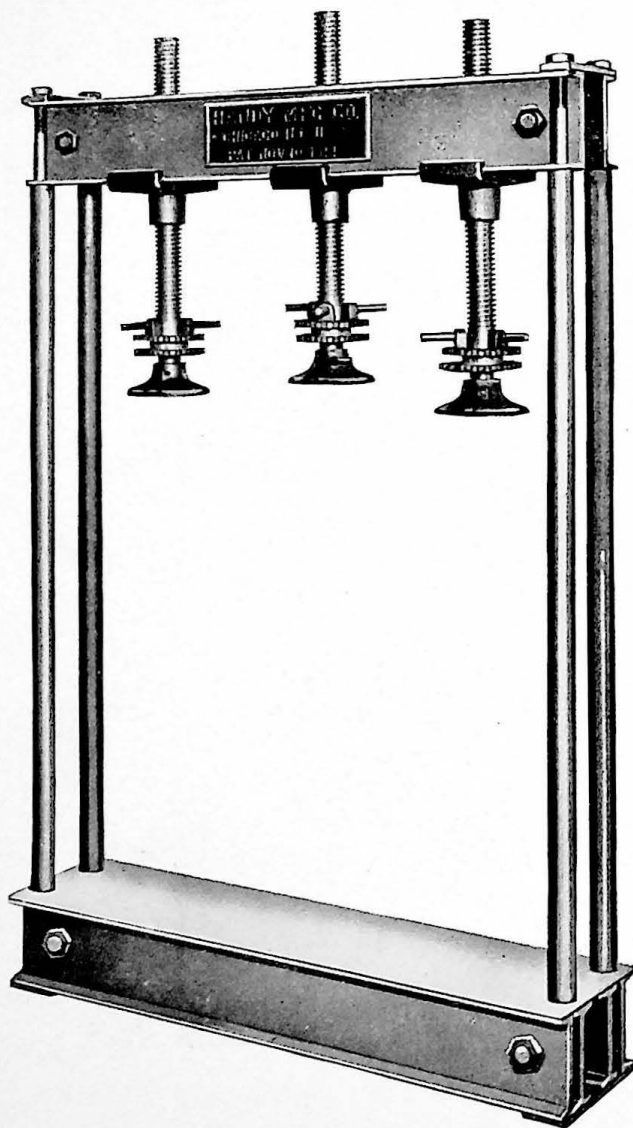
"HANDY" All Steel Press No. 320



Specifications are the same as press on opposite page, except that it has pressure plates 24"x24" instead of flanges at the end of each screw; also screws are 2" in diameter. Weight 900 lbs. Press No. 320.

Can furnish plates 24"x24" as above for any style press at an additional cost for each plate of \$22.00.

"HANDY" All Steel Sectional Press No. 330

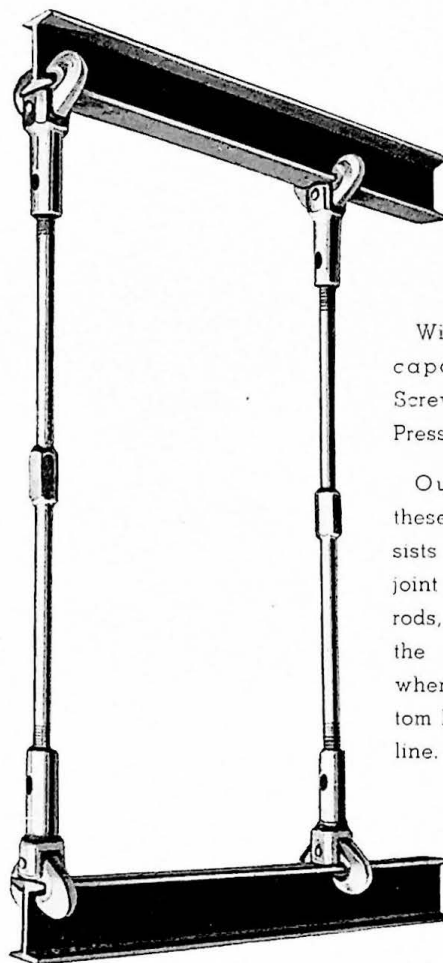


Press shown above is 40" long between rods and 11" wide. It has three 2" screws adjustable along entire length of press. Pressure applied with ratchet wrench.

Weight about 475 lbs. We will quote on any size sectional press desired.

Press No. 330.

"HANDY" Single Beam Retainers



Will increase your capacity on either Screw or Hydraulic Presses

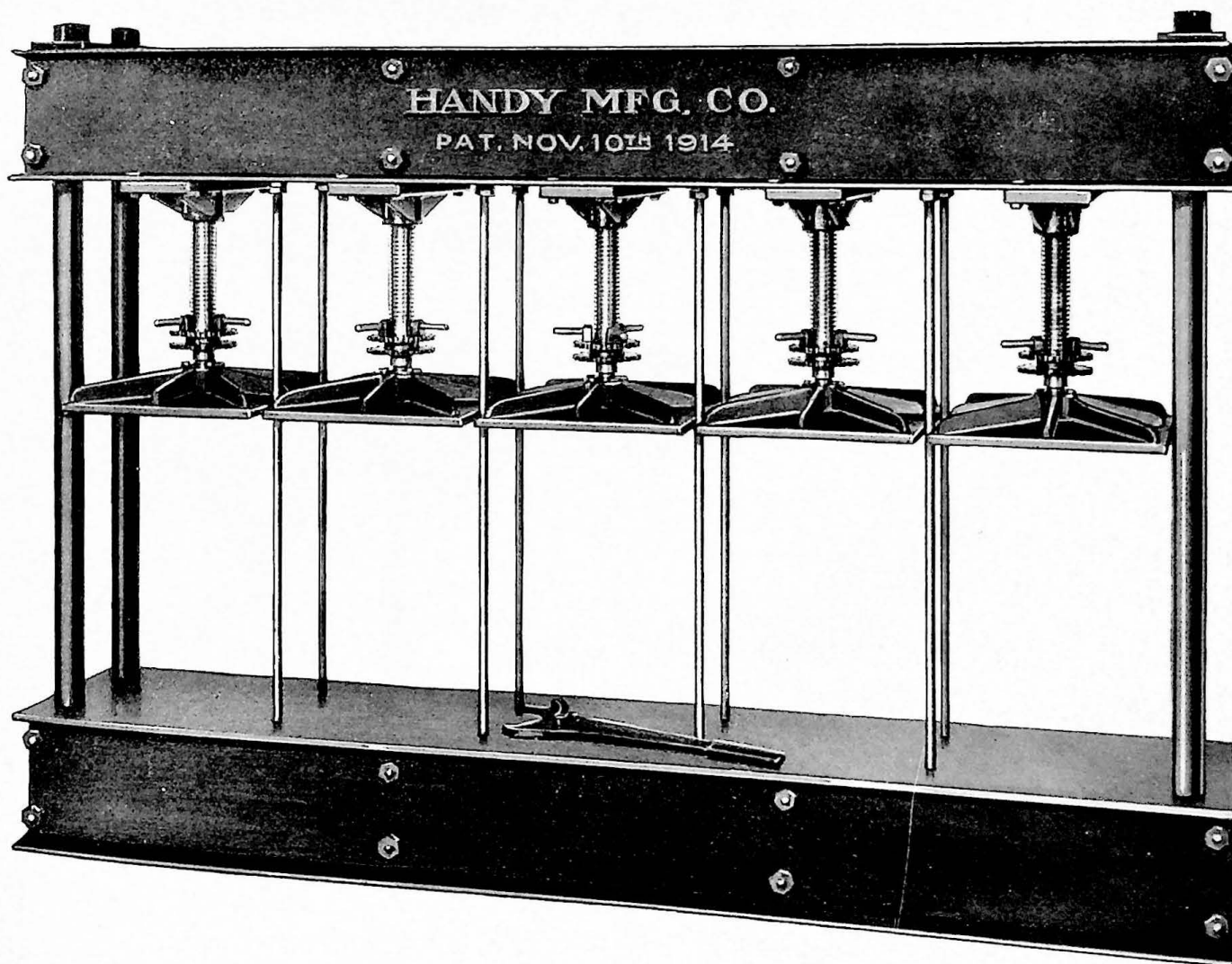
Our feature on these retainers consists of a flexible joint at each end of rods, thus, lessening the strain on rods when top and bottom beams are not in line.

When ordering, state extreme inside opening between the Beams. Each Beam is 4" high.

	Per set
No. 501 for stock up to 18" in width.....	\$ 9.50
No. 502 for stock up to 24" in width.....	10.00
No. 503 for stock up to 30" in width.....	10.50
No. 504 for stock up to 36" in width.....	11.00
No. 505 for stock up to 42" in width.....	11.50
No. 506 for stock up to 48" in width.....	12.00
No. 507—Rods only (no Beams)	7.00

Above illustration is one set.

"HANDY" All Steel Stacking Press



This Press is 7' 8 $\frac{1}{4}$ " over all in length and 16" wide. Each one of the pressure plates and spaces between the rods is 16" but we will quote on any size spacing and any width of press desired. Screws are 2" in diameter, having a quick acting acme thread. Up and down travel of screws is 17".

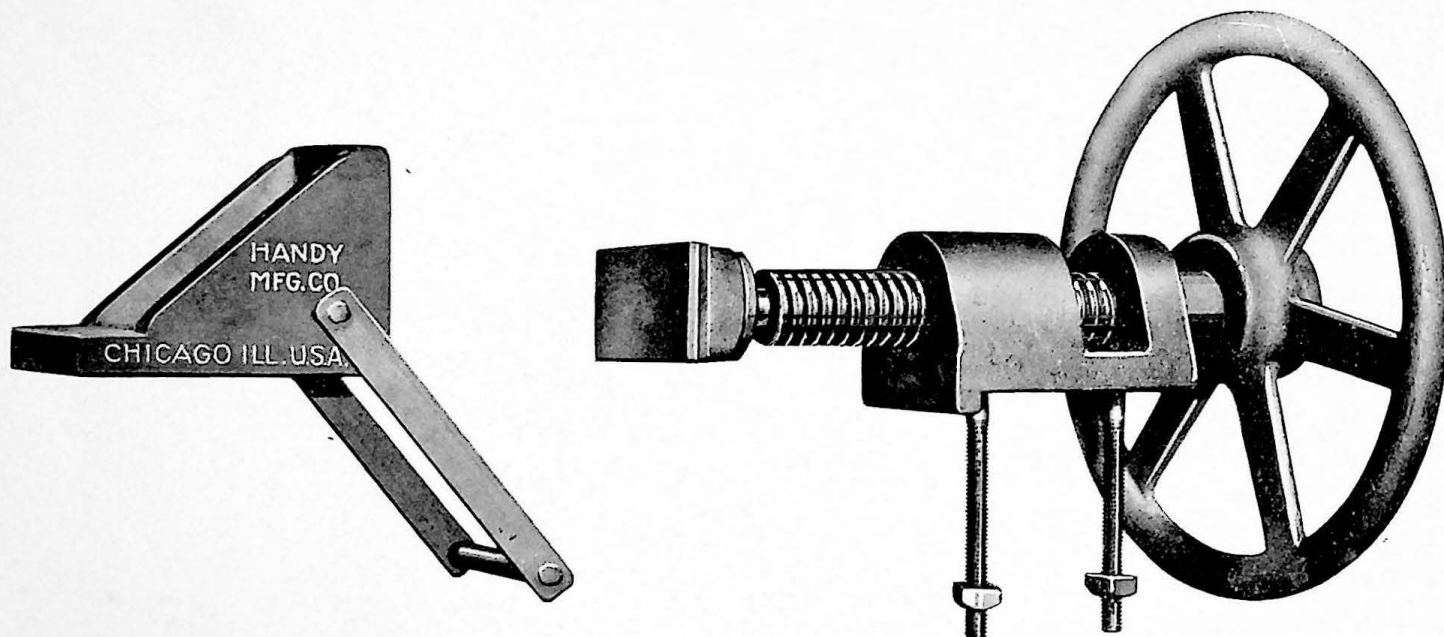
Standard height under pressure plates, when all the way up is 30", but we can make the height to suit, on request.

Tightening is done, first, by the three steel handles above the plate on the screw, to take up the slack, and afterwards by the 20" long patented ratchet wrench which is inserted in the double sprocket wheel above the plate.

- | | |
|----------|---|
| No. 377. | 3 space Press. Weight about 1,450 lbs. |
| No. 378. | 5 space Press (as illustrated). Weight about 2,450 lbs. |
| No. 379. | 8 space Press. Weight about 3,950 lbs. |
| No. 380. | 10 space Press. Weight about 5,000 lbs. |
| No. 381. | 15 space Press. Weight about 7,500 lbs. |

"HANDY" Wood Beam Clamp Fixture

Patented Double Bearing



STYLE Z

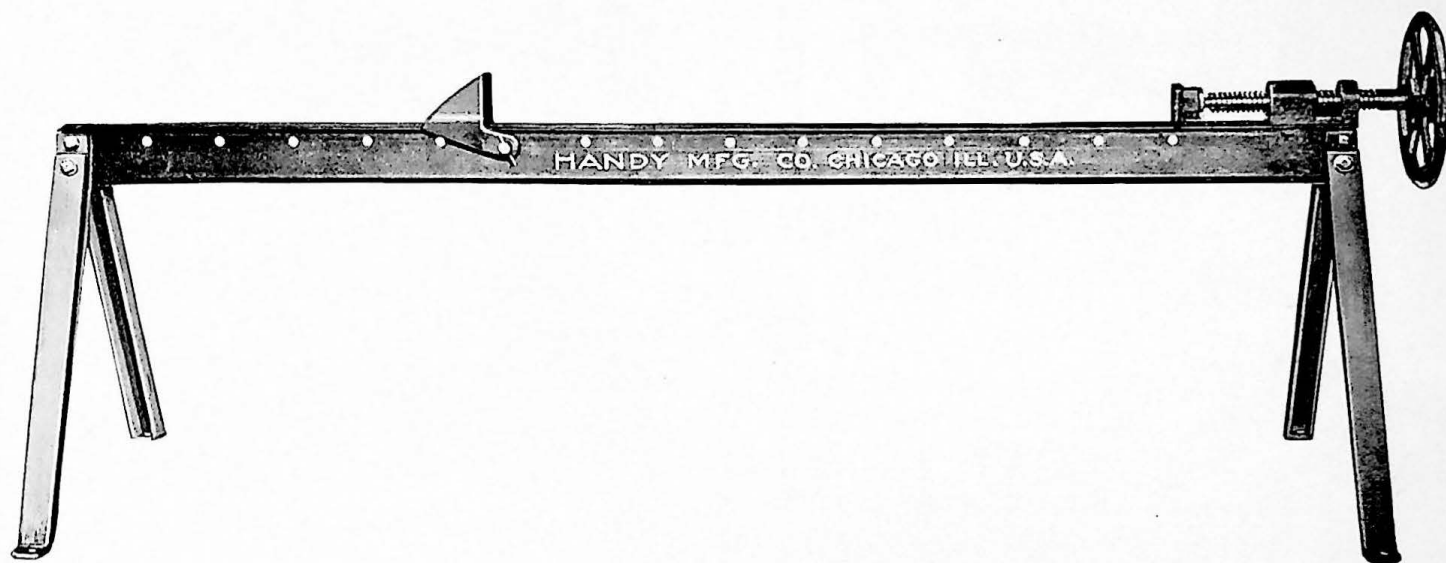
The "Handy" Wood-Beam Clamp Fixture is all steel and iron, extra heavy. It will fit any size wood beam up to $3\frac{1}{2}$ "x $4\frac{1}{2}$ ". The screw is made from $1\frac{1}{2}$ " cold-rolled steel with three threads to the inch and will travel 6 inches. The clamping surface of saddle or backstop is $3\frac{7}{8}$ " high. The wheel is 12 inches in diameter. The fixture complete weighs 40 lbs.

No. 515. Price, \$11.75 per set, as per cut.

No. 516. Price \$9.75 without backstop.

"HANDY" Steel Beam Trestle Clamp

Patented Double Bearing



STYLE V

The "Handy" Trestle Clamp has a heavy $7\frac{1}{2}$ -pound-to-the-foot steel beam, strong, well-braced legs and stands 26 inches from the floor. The screw is made from $1\frac{1}{2}$ " cold-rolled steel, it has three threads to the inch and will travel $7\frac{1}{2}$ ".

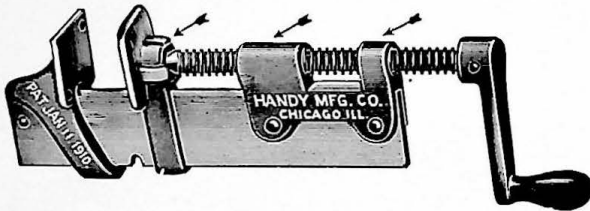
The saddle or backstop is $3\frac{1}{2}$ " high.

The wheel is 12" in diameter.

	Price each	Weight with Legs
No. 520 will clamp 4 feet in the clear.....	\$24.00	135 lbs.
No. 521 will clamp 6 feet in the clear.....	25.00	150 lbs.
No. 522 will clamp 8 feet in the clear.....	26.00	165 lbs.
No. 523 will clamp 10 feet in the clear.....	27.00	180 lbs.
No. 524 will clamp 12 feet in the clear.....	28.00	195 lbs.
No. 525—If no legs are desired, deduct \$7.50 from above prices.		

"HANDY" Tempered Indestructible Steel Bar Clamp

Double Bearing

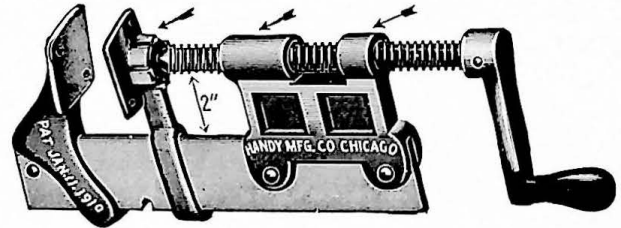


STYLE C

Size of bar, $1\frac{3}{8}'' \times \frac{5}{16}''$

For stock up to 2" in thickness

1 ft., per doz.....\$21.00	7 ft., per doz.....\$33.00
1½ ft., per doz..... 22.00	8 ft., per doz..... 35.00
2 ft., per doz..... 23.00	9 ft., per doz..... 37.00
2½ ft., per doz..... 24.00	10 ft., per doz..... 39.00
3 ft., per doz..... 25.00	11 ft., per doz..... 41.00
3½ ft., per doz..... 26.00	12 ft., per doz..... 43.00
4 ft., per doz..... 27.00	13 ft., per doz..... 45.00
5 ft., per doz..... 29.00	14 ft., per doz..... 47.00
6 ft., per doz..... 31.00	15 ft., per doz..... 49.00

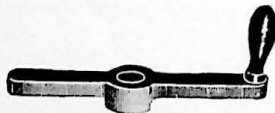


STYLE F

Size of bar, $1\frac{1}{2}'' \times \frac{5}{16}''$

Gives center pressure on stock up to 4" in thickness.

1 ft., per doz.....\$26.00	5 ft., per doz.....\$34.00
1½ ft., per doz..... 27.00	6 ft., per doz..... 36.00
2 ft., per doz..... 28.00	7 ft., per doz..... 38.00
2½ ft., per doz..... 29.00	8 ft., per doz..... 40.00
3 ft., per doz..... 30.00	9 ft., per doz..... 42.00
4 ft., per doz..... 32.00	10 ft., per doz..... 44.00



Handle No. 2



Handle No. 3

We can furnish either Handle No. 2 or No. 3 on any style of Clamps without extra charge. If not specified we furnish handles as shown on Clamp cuts. This is the only Clamp made that has two bearings for screw to work in, which feature increases the life of the Clamp 100%.

Malleable castings only used on "Handy" Clamps.

Steel bar guaranteed not to bend. Made of tempered, indestructible spring steel.

Saddle made of one piece. Held in place by notches on steel bar.

No catches or small parts to get out of order.

Solid handle made of one piece.

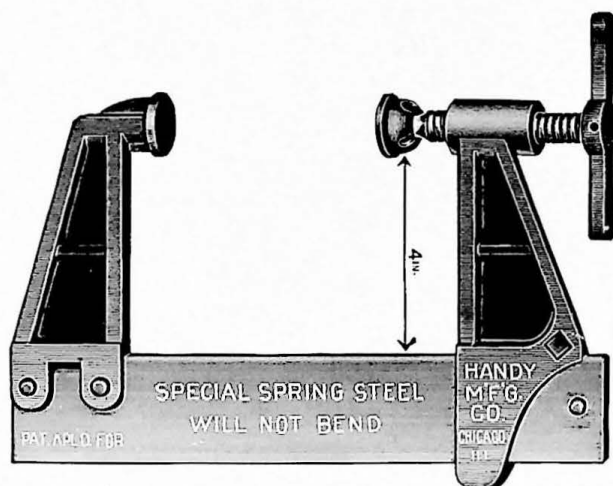
Screw is cold-rolled steel $\frac{5}{8}''$ in diameter and will travel $3\frac{1}{2}$ inches forward or back.

"HANDY" CLAMPS are different; they will not buckle the stock. Try them and note the difference.

Write for names of factories near you using "Handy" Products.

Sizes given above means width of stock clamps will take in.

"HANDY" Tempered Indestructible Steel Bar Clamp



STYLE S

4 in., per doz...\$25.00	2 ft., per doz.....\$29.00
6 in., per doz... 25.50	2½ ft., per doz..... 30.00
8 in., per doz... 26.00	3 ft., per doz..... 31.00
10 in., per doz... 26.50	4 ft., per doz..... 33.00
1 ft., per doz... 27.00	5 ft., per doz..... 35.00
1½ ft., per doz... 28.00	6 ft., per doz..... 37.00

For glueing wide stock, also for clamping forms and stops on machines, QUICK-ADJUSTING.

Center pressure 4" above the bar.

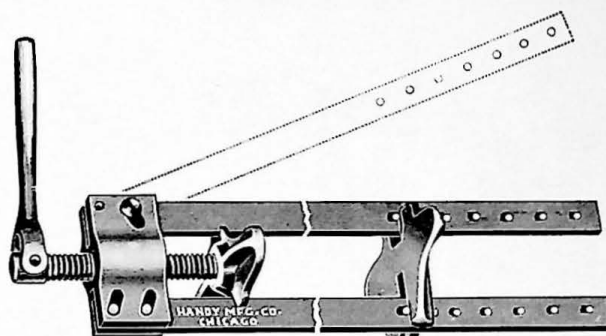
Steel bar guaranteed not to bend. Made of tempered, indestructible spring steel, size $2 \times \frac{3}{8}$ ".

Saddle made of one piece, with special tool steel stops. It is QUICK-ADJUSTING and will stop any place on bar and cannot slip.

Size of screw $\frac{5}{8}$ ", made of cold-rolled steel. All castings are best malleable. Button on end of screw guaranteed not to come off.

Sizes given above mean width of stock clamps will take in.

"HANDY" Double Bar Steel Clamp



STYLE H

For stock from $1\frac{1}{4}$ " to $2\frac{1}{8}$ " thickness

2½ ft., per doz.....\$54.00	4 ft., per doz.....\$60.00
3 ft., per doz..... 56.00	5 ft., per doz..... 64.00
3½ ft., per doz..... 58.00	6 ft., per doz..... 68.00

This clamp is added to our line to fill an increasing demand for a double bar clamp of the right construction; one that will stand up under heavy usage.

It is so constructed that the top bar, by being hinged, can be raised up out of the way, to stand there while the work is being placed.

Large users of this clamp construct a bench or horse, with slots for lower bar to rest in so clamp will stay in position. The bars are made from $1 \times \frac{5}{16}$ " steel with $\frac{3}{8}$ " steel pins inserted $1\frac{3}{8}$ " apart, against which the back stop rests.

The front and backstops have a surface of $5\frac{1}{4}$ " which, along with the extra heavy $\frac{3}{4}$ " cold rolled steel screw, gives extra heavy pressure without marring the edge of stock. All castings are high grade certified malleable.

The handle is hinged for convenience in operation and handling.

The two bars will close down to $1\frac{1}{4}$ " and open up $2\frac{1}{8}$ ".

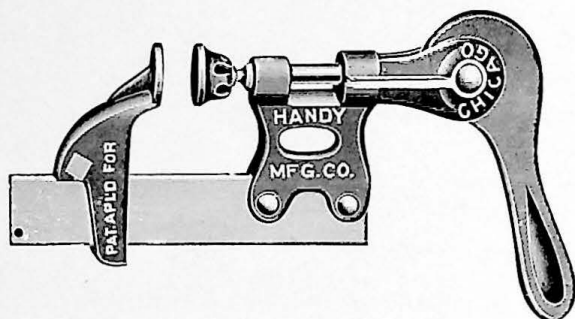
2½ ft. and 3 ft. clamps will take stock from these sizes down to $1\frac{3}{2}$ ".

3½ ft. and 4 ft. clamps will take stock from these sizes down to 18".

5 ft. and 6 ft. clamps will take stock from these sizes down to 24".

"HANDY" Steel Eccentric Clamp

Double Bearing



STYLE X

1 ft., per doz.....\$19.00	4 ft., per doz.....\$25.00
1½ ft., per doz..... 20.00	5 ft., per doz..... 27.00
2 ft., per doz..... 21.00	6 ft., per doz..... 29.00
2½ ft., per doz..... 22.00	7 ft., per doz..... 31.00
3 ft., per doz..... 23.00	8 ft., per doz..... 33.00

We have overcome all the "weak points" of other makes of eccentric clamps.

The bar is made of tempered indestructible steel, guaranteed not to bend. Size of steel $1\frac{3}{8}$ " x $\frac{5}{16}$ ".

New improved quick-adjusting saddle that will not slip, when work is hammered in place, after applying pressure.

Patent double bearing for plunger strengthens and holds it rigid.

Eccentric works between two flanges, thus giving a double bearing for the shaft.

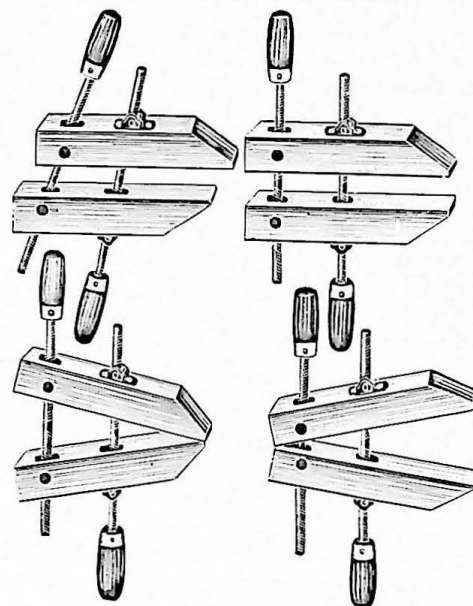
The pressure is quickly applied with one move of the eccentric lever.

Be convinced of its superiority by ordering sample. All parts are made of malleable and cold rolled steel, excepting the bar, which is tempered spring steel and will not bend. Button will not come off. You can not realize the improvements made on this Clamp, unless you see them.

Sizes given above mean width of stock clamps will take in.

There is a factory near you using "HANDY" Products.

"HANDY" Steel Spindle Adjustable Hand Screw



STYLE A

Can be kept rigid or adjustable to any position

STRONGEST HAND SCREW MADE

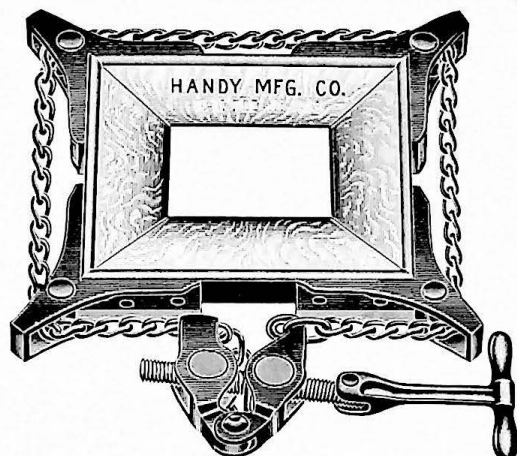
Gives more pressure than any other Steel Spindle Hand Screw.

Order by these Nos.	From Center Spindle to End of Jaw	Will Open	Size of Spindle	Per doz.
A 6	5"	6"	$\frac{7}{16}$ " Dia.....	\$17.00
A 8	6"	8"	$\frac{7}{16}$ " Dia.....	18.00
A10	6½"	10"	$\frac{7}{16}$ " Dia.....	19.00
A12	8"	12"	½" Dia.....	22.50
A14	10"	15"	½" Dia.....	26.50

The jaws are made of the best seasoned maple and have but one hole through center.

Having only one hole in center, jaw keeps all possible strength. Spindles work in metal nuts and bearings, making Clamp rigid but easily adjustable when wanted. Clamps work nearly twice as fast as common wood screws, because spindles have a right and left thread and more work can be done in a given time. It gives a tighter grip than is possible with wood screws and less power is required. Handles guaranteed not to get loose. Glue cannot stick to the spindles. The best cold rolled steel is used.

"HANDY" Chain Frame Clamp



STYLE N

Prices of Clamp with Chain

Per doz.	Per doz.
4 ft. chain.....\$64.00	15 ft. chain.....\$75.00
6 ft. chain..... 66.00	16 ft. chain..... 76.00
8 ft. chain..... 68.00	17 ft. chain..... 77.00
10 ft. chain..... 70.00	18 ft. chain..... 78.00
11 ft. chain..... 71.00	20 ft. chain..... 80.00
12 ft. chain..... 72.00	22 ft. chain..... 82.00
13 ft. chain..... 73.00	24 ft. chain..... 84.00
14 ft. chain..... 74.00	

This is the ideal clamp for clamping glass frames, mitred boxes or any other mitred work that should be kept under pressure until the glue is set, as the price warrants the use of a sufficient number of these clamps to accomplish that purpose.

It is the best Clamp for use on any work, either high or low, that has four mitred corners.

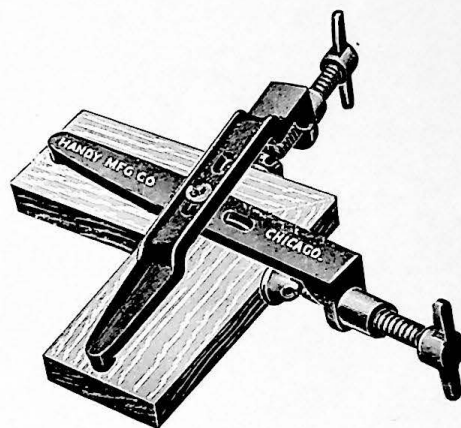
"Low" Style with corners $1\frac{1}{8}$ " in height is most suitable for glueing glass frames.

"High" Style with corners $2\frac{1}{4}$ " in height for higher work. Each corner piece has screw holes, so that on offset edges there can be a mate of wood screwed on to match shape of frame.

The "Handy" tightening device works with right and left thread, in order to insure uniform pressure at all four corners. In ordering, state the style you desire, either "high" or "low" corners.

Add one foot extra chain to actual length needed. Clamp can be used for any work below its size.

"HANDY" Miter Clamp



STYLE M

Per dozen, \$29.00

It is the only Mitre Clamp that will take in and glue any width perfectly, for it always gives center pressure. Will work alike on straight or sprung mouldings. Will not mar either inside or outside edges and will clamp mitred mouldings quicker and with more perfect joint than any other clamp made.

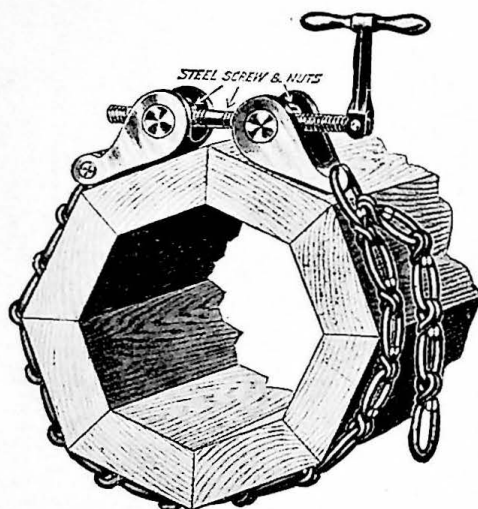
It is adjustable. By turning the two screws back or forth, the work can instantly be lined up without any hammering.

It is necessary to drill holes only $\frac{1}{8}$ " in depth.

It has been thoroughly tested and is used by all the largest interior finish factories at the present time.

Made of malleable and cold rolled steel.

"HANDY" Column Clamp



STYLE B

For clamping all kinds of staved columns, tanks or any round or polygon forms from 4 inches in diameter up.

Greatest labor-saving device on the market. Stock size takes column 16 inches in diameter and under.

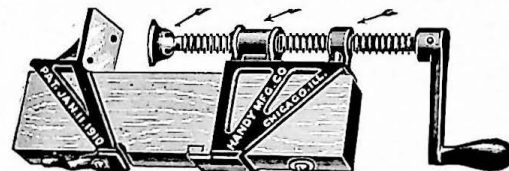
Price, with 4 ft. chain, as above, per dozen \$40.00

Extra chain, 20 cents per foot

To operate the clamp, the screw is turned until the two lugs are at or near its extreme ends. The chain is then thrown around the column with the loose end and handle toward the operator. Now pull the chain together as tight as convenient by hand, and slip the nearest link into the hook. The screw is next turned to pull the two lugs together. Now tap the staves from all sides with a hammer or mallet, and then give the screw another quarter or half turn to take up the slack thus made in the chain.

Use seven clamps to an 8 ft. shaft; other lengths in proportion. By this method one man can glue up an ordinary column in from four to six minutes.

"HANDY" Malleable Clamp Fixture



STYLE D
Fixture Only

Price per dozen, \$16.00

THE SCREW FIXTURE is held to a $2\frac{1}{2}'' \times 1\frac{1}{4}''$ wood bar, by means of LUGS in fixture, fitting into notches on wood bar, as shown in cut, also a BOLT going THROUGH WOOD, which, with the DOUBLE BEARING for the cold rolled machine cut screw, makes it a better Clamp Fixture than any other on the market.

Will wear twice as long as the ordinary kind.

"HANDY" Carriage or Machine Clamp



STYLE G

	Per doz.
No. 508 takes in work up to 6 inches.....	\$13.00
No. 509 takes in work up to 8 inches.....	15.00

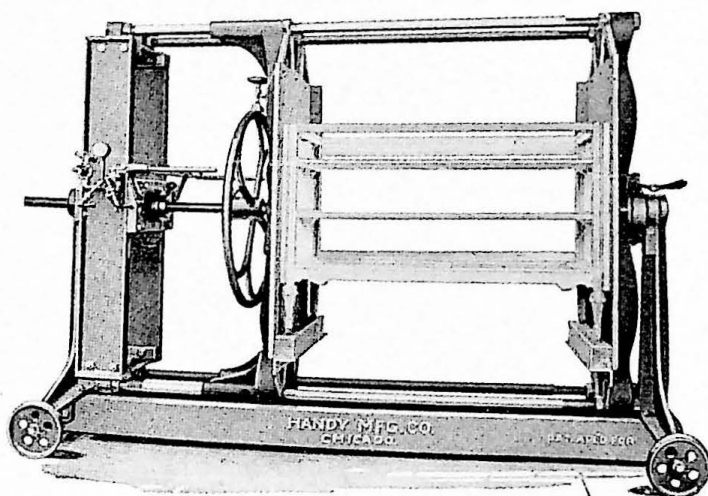
This Clamp is made of the best malleable iron, heavily ribbed to prevent twisting.

Screw is $\frac{5}{8}''$ in diameter and cut from cold rolled steel, which gives a smooth and even thread.

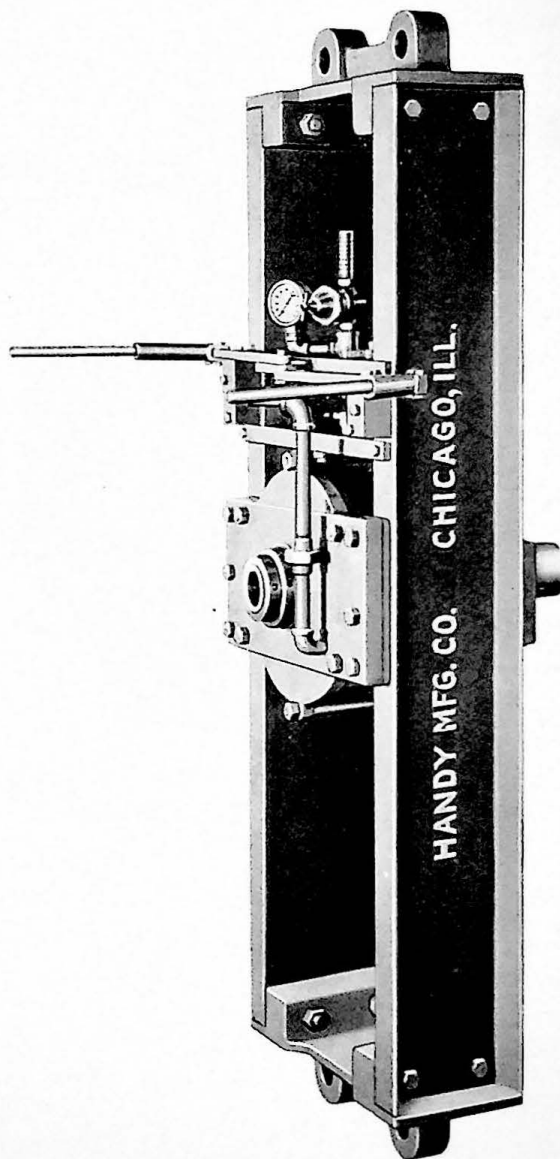
Button on end of screw will not come off.

"HANDY" Air Unit

shown at right, will convert your "HANDY"
screw operated Revolving Case Clamp into
Air Operated Clamp, illustrated at left below.



"HANDY" Air Operated Revolving Case Clamp



Just remove old unit and replace with new air unit and you have an up-to-date Revolving Air Operated Case Clamp, identical with our standard Clamp, as illustrated.

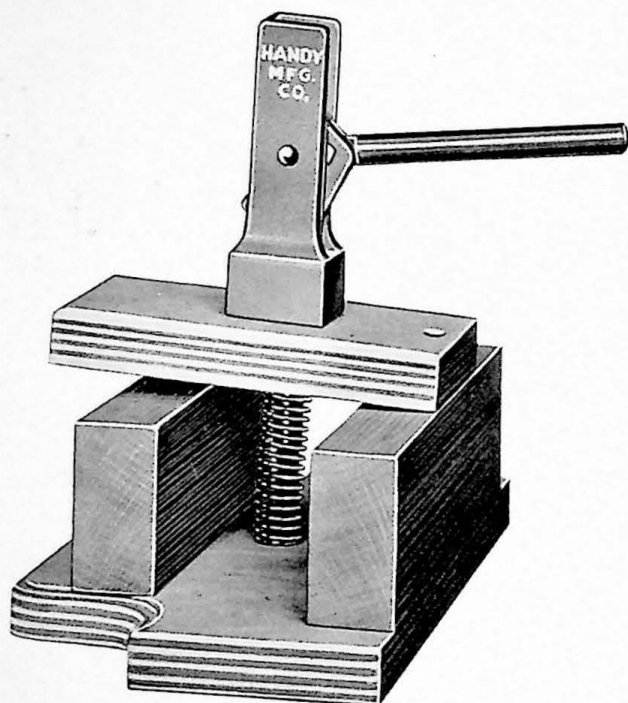
Hundreds of Clamps have already been converted. No machining needed. Anyone can make the change.

In ordering, give us diameter of sliding rods and distance center to center both ways of rods.

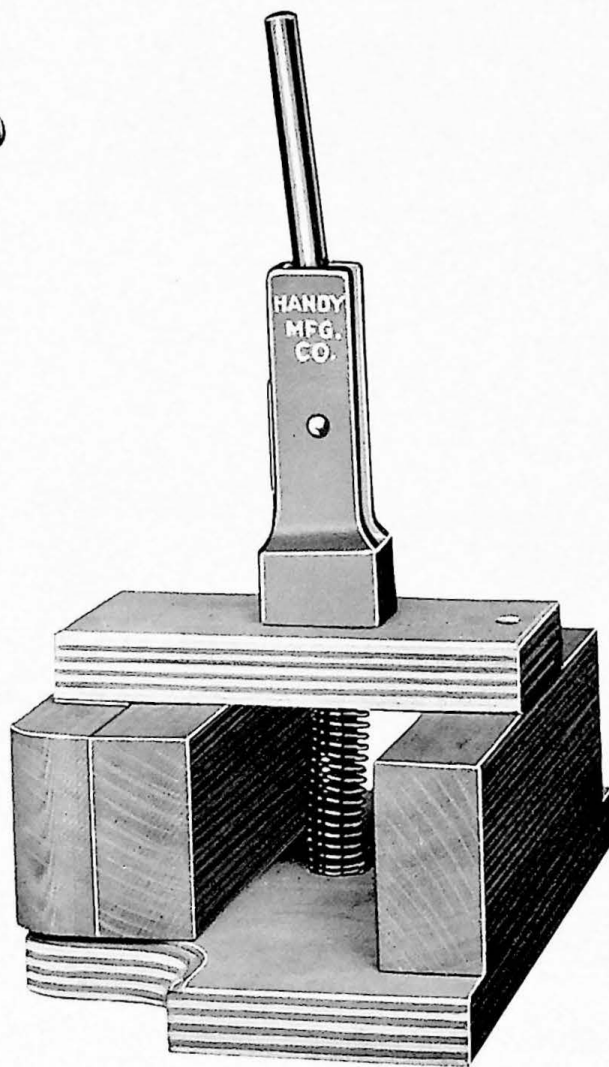
Price for complete air unit, as illustrated at right above \$295.00.

Weight about 650 lbs.

"HANDY" Shaper Form Clamp



Above illustration shows clamp attached to open form



Above illustration shows clamp attached to form and stock clamped

Shaper Clamp illustrated above was designed to meet the demand for a better and more reliable clamp than has up to now been available. It can not jar loose as the eccentric is at a dead center when pressure is fully applied and therefore does not depend on friction to hold. Order a sample and after trying it you will continue to order the "Handy" Shaper Clamp.

Price each \$8.00.

**CLAMPING MACHINERY
VENEER PRESSES**

AND

CLAMPS

CATALOGUE NO. 35